सत्यमेव जयते

भारत सरकार GOVERNMENT OF INDIA
परमाणु ऊर्जा विभाग DEPARTMENT OF ATOMIC ENERGY
भारी पानी बोर्ड सुविधाएं, तालचेर HEAVY WATER BOARD FACILITIES, TALCHER

पोस्ट विक्रमपुर P.O.: Vikrampur
जिला अनुगुल Dist: Angul
उडिशा Odisha: 759106

No: HWBF/TAL/STORES/WO/2026/01 दिनांक DATED: 15-05-2025

e- TENDER NOTICE NO. HWBF/TAL/STORES/WO/2026-27/01

भारत के महामहिम राष्ट्रपति के लिए और उनकी ओर से विशेष कार्याधिकारी, भारी पानी बोर्ड सुबिधाये (तालचेर), डाक विक्रमपुर, जिला अनुगुल (ओडिशा) द्वारा पात्र ठेकेदारों से दो बोली में निम्नलिखित कार्य एवं ब्यौरे के अनुसार ऑन लाइन ई-निविदाएं आमंत्रित की जाती हैं।

Online tenders are invited through e-tendering mode by the Officer-on-Special-Duty, Heavy Water Board Facilities, Talcher, PO: Vikrampur, Dist: Angul (Odisha) on behalf of the President of India in two bid, from eligible contractors for the work and details given below:

1	एनआईटी सं. e-NIT No.	HWBF/TAL/STORES/WO/2026-27/01
2	कार्य का नाम Name of the work	क्रय एवं भंडार निर्देशालय, भंडार एकक, भारी पानी बोर्ड सुबिधाये, तालचेर में वर्ष 2026-27 विविध सामग्री हैंडलिंग कार्य Miscellaneous Material Handling Job at DPS, Stores Unit, HWBF, Talcher for the year 2026-27.
3	निविदा की आंकलित लागत Estimated cost put to tender including GST	Rs. 14,46,262.00 [Inclusive of GST]
4	ईएमडी EMD	Rs. 28,925.00
5	कार्य पूर्ण होने की अवधि Completion period	12 (Twelve) Months.
6	निविदा प्रक्रिया शुल्क Tender processing Fee	NIL
7	ईएमडी जमा कराना EMD submission	बोलीकर्ता को **₹28,925.00** की कुल बयाना राशि जमा करानी होगी तथा यह भारतीय स्टेट बैंक या किसी अनुसूचित बैंक द्वारा वेतन एवं लेखा अधिकारी, भारी पानी बोर्ड सुविधाएं (तालचेर) के पक्ष में जारी एसटीडीआर/सावधि जमा रसीद(एफडीआर)/ बैंकर्स चेक / डिमांड ड्राफ्ट जो स्टेट बैंक इंडिया TFT Branch (Code-3312) में देय हो, या **https://bharatkosh.gov.in** के माध्यम से ऑनलाइन मोड के रूप मे होनी चाहिए । **यदि बयाना राशि जमा नहीं की जाती है तो ऐसी निविदाएं तुरंत अस्वीकृत कर दी जाएंगी।** **नोट: पार्टी का नाम ईएमडी दस्तावेज पर भी दिखाई देनाचाहिए।** The bidder has to deposit a total amount of **₹ 28,925.00** towards Earnest Money (EMD) in the form of Online mode through **https://bharatkosh.gov.in** or STDR/FDR/BC/DD payable at State Bank of India, TFT Branch (Code-3312), in the name of P&AO, HWBF,

		Talcher. **The tender not accompanied by the Earnest Money will be summarily rejected.** **Note: Name of the bidder shall appear on the EMD document.**
8	निष्पादन गारंटी (पीजी) एवं प्रत्याभूति जमा (एसडी) Performance guarantee (PG) & Security Deposit (SD)	निष्पादन गारंटी (पीजी): ठेकेदार को एलओए प्राप्त होने के बाद, निविदा राशि का 3% अपरिवर्तनीय पीजी एसटीडीआर/एफडीआर के रूप में "पी एंड एओ, एचडब्ल्यूबीएफ, तालचेर" के पक्ष में एसबीआई, टीएफटी शाखा, कोड संख्या 3312 पर देय जमा करना होगा। कार्य सफलतापूर्वक पूरा होने पर, कार्य पूर्णता प्रमाण पत्र जारी होने के बाद, यह राशि वापस कर दी जाएगी। Performance guarantee (PG): The contractor shall submit an irrevocable PG of 3% of the tendered amount in the form of STDR /FDR in favour of "P&AO, HWBF, Talcher payable at SBI, TFT Branch, Code No. 3312", after receipt of LOA. The same will be refunded after successful completion of work after issue of work completion certificate. सुरक्षा जमा (एसडी): निविदा राशि का 2.5%, प्रत्येक आरए बिल (अंतिम बिल सहित) से 2.5% की दर से तब तक वसूला जाएगा जब तक कि कुल एसडी (निविदा राशि का 2.5%) वसूल न हो जाए। दोष दायित्व अवधि के बारह (12) महीने सफलतापूर्वक पूरा होने या अंतिम बिल पारित होने के बाद, जो भी बाद में हो, एसडी वापस कर दी जाएगी। दोष दायित्व अवधि के बाद, यदि एसडी जारी नहीं की जाती है, तो ठेकेदार उसे जारी करने का अनुरोध कर सकता है। Security Deposit (SD): 2.5% of tendered amount will be recovered @ 2.5% from each RA bill (Including final bill) till the total SD (2.5% of tendered amount) is recovered. SD will be refunded after successfully completion of defect liability period of six (06) months or passing of final bill whichever is later. After defect liability period if SD is not released, the contractor may ask for release of same.
9	निविदा प्रकाशित होने की तिथि एवं समय Date and time of publishing of Tender	वेब साईट web-site https://eprocure.gov.in/eprocure/app पर **20/05/2026 (10.00 Hrs.)** से । NIT वेब साईट www.hwb.gov.in पर भी केवल देखने हेतु उपल्ब्ध रहेगी। **From 20/05/2026 (10.00 Hrs.)** on web-site https://eprocure.gov.in/eprocure/app NIT is also available on website www.hwb.gov.in for view only.
10	दस्तावेज़ डाउनलोड / बिक्री शुरू होने की तिथि एवं समय Document download /Sale start Date and time	**20/05/2026 (10.00 Hrs.)** से। **From 20/05/2026 (10.00 Hrs.)**
11	बोली पूर्व स्पष्टीकरण दिनांक Date of pre-bid clarification	**From 10.00 Hrs. to 17.00 Hrs on dated 21/05/2026 to 22/05/2026**
12	बोली जमा करने की आरंभ तिथि एवं समय Bid submission start Date and time	**21/05/2026 (10.00 Hrs.)** से । **From 21/05/2026 (10.00 Hrs.)**
13	ईएमडी हेतु मूल डीडी/बीसी/एफडीआर/ भारतकोश की ई-रसीद इत्यादि जमा कराने की अंतिम तिथि एवं समय आदि	विशेष कार्याधिकारी, भारी पानी बोर्ड सुविधाएं तालचेर, के आफिस में **28/05/2026 (14.30 Hrs.)** को या उससे पहले। भारत कोष पोर्टल के माध्यम से भुगतान के मामले में, ई-रसीद जमा करने की नियत तिथि से पहले asodps@tal.hwb.gov.in और dpsreceipt@tal.hwb.gov.in पर ईमेल की जाएगी।

	Last date and time for submission of Original DD/BC/FDR/e-receipt of Bharat Kosh etc. towards tender EMD	**On or before 28/05/2026 (14.30 Hrs.)** in the Office of Officer-on-Special-Duty, Heavy Water Board Facilities, Talcher, PO: Vikrampur, Dist: Angul (Odisha). In case of payment through bharatkosh portal, e-receipt shall be sent through email to asodps@tal.hwb.gov.in and dpsreceipt@tal.hwb.gov.in before due date of submission.
14	ऑन लाइन निविदाओं को जमा करने की अंतिम तिथि एवं समय Last date and time of closing of online submission of tenders:	**28/05/2026 (14.30 Hrs.)**
15	तकनीकी बोली ऑन लाइन खोलने की अंतिम तिथि Date and time of online opening of Technical Bid.	**30/05/2026 (15.30 Hrs.)**
16	पात्र बोलीकर्ताओं की वित्तीय बोलियों को खोलने की अंतिम तिथि Date of opening of Financial Bids of qualified bidders	बाद की तारीख में अधिसूचित किया जाएगा। Will be notified in a later date
17	टेण्डर की वैधता की तारीख Date of validity of Tender	टेण्डर खोलने की तारीख से **90** दिनों तक। **90 days** from date of opening of tender.

Notes:

1. निविदा अधिसूचना एवं दस्तावेज वेबसाइट https://eprocure.gov.in/eprocure/app पर उपलब्ध हैं।
   Tender Notification and documents are available on websites https://eprocure.gov.in/eprocure/app
2. केवल पंजीकृत ठेकेदार निविदाओं को खरीद/डाऊनलोड/अपलोड या जमा करा सकते हैं।
   Registered contractors only can purchase / download & Submit / Upload Tenders.
3. इच्छुक एजेंसियां https://eprocure.gov.in/eprocure/app वेबसाइट पर पंजीकरण कर सकती हैं।
   Interested agencies may visit this website https://eprocure.gov.in/eprocure/app for registration.
4. हर समय सहायता / स्पष्टीकरण हेतु संपर्क करें 24x7 0120-4001002,4001005 and 6277787, ईमेल: support-eproc@nic.in
   Contact for assistance / clarification 24x7 0120-4001002,4001005 and 6277787, e mail- support-eproc@nic.in
5. अन्य जानकारी हेतु कृपया संपर्क करें 06760-262042 फैक्स: 06760-262387 (कार्यालयीन समय में ही).
   For further information, please contact on 06760-262042, FAX-06760-262387 during office hours.

18	ठेकेदार जो निम्नलिखित अपेक्षाओं की पूर्ति करते हैं वे ही केवल पात्र होंगे। (संयुक्त उद्यम स्वीकार्य नहीं होंगे) Contractors who fulfill the following requirements shall ONLY be eligible to apply. (Joint ventures are not accepted).
A	सरकारी/अर्धसरकारी संगठनों जैसे डीएई/ बीएआरसी/ सीपीडब्ल्यूडी,एमईएस,बीएसएनएल, रेलवे आदि के साथ उपर्युक्त श्रेणी का पंजीकरण या समान प्रकृति के कार्य को करने का अनुभव . Proof of registration with Government / Semi Government organizations like DAE / BARC, CPWD, MES, BSNL, Railways etc. in appropriate class OR having experience in execution of similar nature of works.
B	दिनांक **30/04/2026** से गत 07 वर्षों में नीचे दिए गए कार्यों को संतोषजनक रूप से पूर्ण किया जाना चाहिए Should have satisfactorily completed the works as mentioned below during the last Seven years ending **30/04/2026.**
i	तीन समान कार्य पूर्ण किए गए हों जिनमें से प्रत्येक की आंकलित लागत 40 प्रतिशत से कम नहीं हो। Three similar works each costing not less than 40 % of the estimated cost or
ii	दो समान कार्य पूर्ण किए गए हों जिनमें से प्रत्येक की आंकलित लागत 60 प्रतिशत से कम नहीं हो । Two similar works each costing not less than 60 % of the estimated cost or

iii	एक समान कार्य पूर्ण किया गया हों जिसकी आंकलित लागत 80 प्रतिशत से कम नहीं हो। One similar work costing not less than 80 % of the estimated cost.
iv	समान कार्य से अभिप्राय होगा :, "विविध सामग्री हैंड्लिंग कार्य/अपकिपिंग कार्य जैसे कि उतराई / लोडिंग / खोलना / बंद करना / खेपों को खोलना / खेप की अनपैकिंग के बाद निर्दिष्ट स्थानों पर क्रेटों का निपटान करना और आने वाली सामग्री, पूंजीगत वस्तुओं और रासायनिक की प्राप्ति पर शिफ्टिंग / बिनिंग / स्टैकिंग / पैटिंग आदि के रुप मै और जब आवश्यक आधार पर।" Similar works shall mean, "Miscellaneous Material Handling Jobs/ upkeeping jobs: such as, Unloading/Loading/Opening/Closing/Unpacking of consignments/Disposing of crates at designated places after unpacking of consignments and shifting/binning/stacking on receipt of incoming materials, capital goods/ chemicals etc on as & when required basis."
v	निष्पादित कार्य का मूल्य, कार्य के वास्तविक मूल्य में 7% प्रति वर्ष की साधारण दर से वृद्धि करके वर्तमान लागत स्तर पर लाया जाएगा, जिसकी गणना कार्य पूरा होने की तिथि से बोली प्रस्तुत करने की अंतिम तिथि तक की जाएगी। The value of executed work shall be brought to current costing level by enhancing the actual value of work done at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid.
C	**आईटीसीसी के अनुसार गत 5 वर्षों का वार्षिक टर्नओवर या लाभ या हानि विवरण:** **31.03.2025** को समाप्त वर्ष पर गत तीन वित्तीय वर्षों का औसत वार्षिक टर्न ओवर निविदा में दी गई आंकलित लागत का **50 %** होना चाहिए। दिनांक **31.03.2025** (गत वित्तीय वर्ष) को समाप्त गत 5 वर्षों के दौरान कोई हानि 2 से अधिक वर्षों में न हुई हो। यह डोक्यूमेंट चार्टेड अकाउंटेंट द्वारा प्रमाणित होना चाहिए। **Average Annual financial turnover** should be **50 %** of estimated value during immediate last three consecutive financial years ending **31.03.2025**. Bidder should have not incurred any loss in more than two years during the last five consecutive immediate financial years ending **31.03.2025**, duly certified by the licensee Chartered Accountant.
D	किसी भी अनुसूचित बैंक से कार्य की आंकलित लागत के **40 प्रतिशत** का नवीनतम सोलवेंसी प्रमाण पत्र। Latest Bank solvency certificate from any scheduled banks of Minimum Value of **40 %** of the estimated cost. (Should not be older than one year from the date of opening of tender).
E	वर्तमान में किए जा रहे एवं गत 7 वर्षों के दौरान किए गए कार्य जिसमें इनका उल्लेख हो i) किस एजेसी के लिए कार्य किया गया है, ii) कार्य का मूल्य iii) निर्धारित एवं वस्तविक कार्यपूर्ण अवधि या कार्य की वर्तमान स्थिति। List of similar works in hand & similar works carried out by them for last 7 years indicating i) Agency for whom executed, ii) Value of work, iii) Completion time as stipulated and actual, or present position of the work.
F	समय पर कार्य पूर्ण करने के लिए एजेंसी द्वारा रखे गए निर्माण संयंत्र, मशीनरी, उपस्करो, अतिरिक्त एवं अवसंरचनात्मक सुविधाओं की सूची। List of construction plant, machinery, equipments, accessories & infrastructure facilities possessed by the agency to complete the work in time.
G	जिन तकनीकी स्टाफ को उन्होने रखा है, उनकी सूची। List of Technical staff they possess.
H	**प्रमाण पत्र** : (मूल प्रमाण पत्रों की स्केन कॉपी अपलोड की जाए।) **CERTIFICATES:** (Scanned copy of original certificates to be uploaded)
i)	समान कार्य का कार्य आदेश, मात्रा की अनुसूची और कार्य पूरा होने का प्रमाण पत्र। Details of Similar work experience as Work order, Schedule of quantity, Work Completion Certificates etc.
ii)	GST पंजीकरण प्रमाण पत्र। GST registration no / Certificate
iii)	पेन (स्थायी लेखा संख्या) पंजीकरण PAN (Permanent Account Number) Registration
iv)	इ.पी.एफ. और इ.एस.आई. पंजीकरण प्रमाण पत्र। **EPF & ESI** registration certificate

19	आवेदन करने वाले बोलीकर्ता अनुच्छेद-। : "संविदा की शर्तें एवं खंडों" की नोटिस आमंत्रण निविदाओं के अनुसार शर्तें अवश्य ध्यान से पढ़नी चाहिए। यदि वह स्वय को पात्र समझता है और उसके पास सभी अपेक्षित दस्तावेज है केवल तब ही उसे अपनी बोली प्रस्तुत करनी चाहिए। विभाग के पास यह पूर्ण अधिकार है कि वह उन एजेंसियों के निविदा दस्तावेजो पर विचार नहीं कर सकती है जिन्होने एनआईटी की विहिताओं पूरा नहीं किया है / या गत समय में उनके द्वारा किए गए कार्य के बारे में प्रतिकूल रिपोर्ट पाई गई हो। The intending bidder must read the terms and conditions as per "SECTION – 1: NOTICE INVITING TENDERS" OF "CONDITIONS AND CLAUSES OF CONTRACT" CAREFULLY. He should only submit his bid if he considers himself Eligible and he is in possession of all the documents required. Department reserves the right of Non-consideration of Tender documents of the agencies who are not fulfilling the NIT stipulations and / or having adverse report on the works carried out by them in the past.
20	निविदा एक निश्चित मद दर अनुबंध है और मद दर परिवर्तनशील नहीं है। अनुबंध अवधि या विस्तारित अवधि के दौरान, विभाग द्वारा किसी भी प्रकार की दर वृद्धि का भुगतान नहीं किया जाएगा। इसलिए, ठेकेदार को तदनुसार दर उद्धृत करनी चाहिए। Tender is fixed item rate contract and item rate is not variable. During contract period or extended period, any type of rate escalation will not be paid from department. Hence, contractor should quote the rate accordingly.
21	वेबसाइट पर डाली गई सूचना एवं अनुदेश निविदा दस्तावेज का ही एक भाग हैं । Information and Instructions for tenderers posted on website shall form part of tender document.
22	निविदा दस्तावेज जिसमें किए जाने वाले कार्यों की योजनाएं, विनिर्देश, मात्राओं की अनुसूची शामिल हैं और अनुपालन की जाने वाली संविदा की शर्तें एवं अन्य आवश्यक दस्तावेज https://eprocure.gov.in/eprocure/app वेबसाइट पर देखी एवं डाऊनलोड की जा सकती है और वेबसाइट **www.hwb.gov.in** पर निशुल्क देखी जा सकती हे। निविदा ड्राइंग को डाऊनलोड करने के लिए वेबसाइट https://eprocure.gov.in/eprocure/app पर अपलोड किया गया है।(यदि निविदा दस्तावेजो में कहीं उल्लेख किया गया हो) The tender 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 https://eprocure.gov.in/eprocure/app and can be viewed in the website of **www.hwb.gov.in** Free of cost. Tender drawing has been uploaded on the website https://eprocure.gov.in/eprocure/app for download (If mentioned anywhere in the tender documents).
23	आवश्यक स्केन किए गए दस्तावेजों जैसे कि किसी भी अनुसूची बैंक का डिमांड ड्राफ्ट या बैंकर चैक या जमा काल रसीद या सावधि जमा रसीदें जो कि ईएमडी के लिए वेतन एवं भुगतान अधिकारी , भारी पानी संयंत्र-तालचेर के पक्ष में जारी किए गये हों तथा जो SBI, TFT ब्रांच , कोड संख्या 3312, तालचेर, PO: विक्रमपुर, जिला: अनुगुल (उडिशा)." में देय हो, के सहित अन्य निर्धारित दस्तावेजों को अपलोड किये जाने के बाद ही बोली प्रस्तुत की जा सकती हैं । The bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft or pay order or Banker's Cheque or Fixed Deposit Receipts of any Scheduled Bank towards cost of Tender Documents fee and EMD in favour of "**P&AO, HWBF, Talcher payable at SBI, TFT Branch, Code No. 3312, Talcher, PO: Vikrampur, Dist: Angul (Odisha)**." and other documents as specified.
24	जिन ठेकेदारों का उपर्युक्त वेबसाइट पर पंजीकरण नहीं है उनसे अनुरोध है कि वे पंजीकरण करा लें। यदि आवश्यक है तो वे वेबसाइट पर उपलब्ध सूचना के अनुसार ऑन लाइन बोली लगाने का प्रशिक्षण प्राप्त कर सकते हैं। Those contractors not registered on the website mentioned above, are required to get registered. If needed, they can be imparted training for online bidding process as per details available on the website.
25	आवेदन करने वाले बोलीकर्ता के पास बोली प्रस्तुत करने के लिए मान्य श्रेणी- III डिजिटल हस्ताक्षर होने चाहिए। The intending bidder must have valid class-III digital signature to submit the bid.
26	खोले जाने की दिनांक पर ठेकेदार लोगि न कर सकता है और बोली खोलने की प्रक्रिया देख सकता है। On opening date, the contractor can login and see the bid opening process.

27	वित्तीय टर्न ओवर का प्रमाण पत्र: बोली प्रस्तुत करने के समय ठेकेदार सीए से गत तीन वर्षों या बोली दस्तावेज में निर्धारित अवधि का वित्तीय टर्न ओवर प्रमाण पत्र अपलोड कर सकता है और आवश्यकता होने पर अन्य ब्यौरे तकनीकी बोली खोलने के बाद अपलोड किए जा सकते हैं। तुलन पत्रक का पूर्ण बंडल अपलोड करने की आवश्यक्ता नहीं है। **Certificate of financial Turn Over:** At the time of submission of bid, contractor may upload undertaking / Certificate from CA for Financial Turnover of last 3 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 entire voluminous balance sheet.
28	ठेकेदार प्रत्येक मद की दर को कोट करें। यदि कोई सेल खाली छूट जाती है और बोलीकर्ता द्वारा कोई भी दर कोट नहीं की जाती है तो ऐसे मदों की दर को "0" (शुन्य) माना जाएगा। दरे केवल **"दशमलव के दो स्थान"** तक ही कोट की जानी चाहिये।यदि दरे दशमलव के दो स्थान से आगे कोट की गयी है तो दशमलव के दो स्थान तक ही माना जायेग। हालांकि, यदि कोई निविदाकार कोई आइटम के खिलाफ शुन्य दरों का उल्लेख करता है, तो निविदा को अमान्य माना जाएगा और इसे सबसे कम निविदाकर्ता के रूप में नहीं लिया जाएगा। Contractor must ensure to quote rate of each item. If any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as **"0" (ZERO).** The rates shall be strictly quoted up to **"TWO DECIMAL"** only. If the rates are quoted beyond two decimal places then it will be considered up to two decimal places only. However, If a tenderer quotes nil rates against any items, the tender shall be treated as invalid and will not considered as lowest tenderer.
29	दो चरणीय प्रणाली में बोली की स्थिति में और यदि संशोधित वित्तीय बोली प्रस्तुत करने के इच्छुक हैं तो यह आवश्यक होगा कि वे संशोधित वित्तीय बोली प्रस्तुत करें। यदि नहीं प्रस्तुत की जाती है तो पूर्व में जमा की गई बोली को अमान्य हो जाएंगी। In the case of bids in two 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 than the bid submitted earlier shall become invalid.
30	विभाग के पास यह अधिकार है कि वे बिना कोई कारण बताए किसी संभावित आवेदन को स्वीकार करे या अस्वीकार करे। The department reserves the right to accept / reject any prospective application without assigning any reason thereof.
31	आयकर चालू बिल और अंतिम बिल से प्रचलित दरों के अनुसार काट लिया जाएगा। कोट की गयी दरें GST सहित होनी चाहिए। सरकारी नोटिफ़िकेशन के अनुसार TDS (as applicable) आपके बिल से काट लिया जाएगा। Income tax shall be deducted from running bills and final bills as per the prevailing rates. TDS as applicable as per Govt. notifications shall also be deducted from the bills.
32	एजेंसियों की छटनी भारी पानी बोर्ड सुविधाएं तालचेर द्वारा गठित विशेषज्ञों की तकनीकी मुल्यांकन समिति द्वारा उनके प्रत्ययो एवं किए गए कार्यों के निरीक्षण के माध्यम से की जाएगी। Short listing of the agencies shall be subject to thorough verification of their credentials and inspection of works carried out by them, through a Technical Evaluation Committee of experts, constituted by Heavy Water Board Facilities, Talcher.
33	बाद में यह पता चलता है कि आवेदक द्वारा दी गई कोई सूचना गलत है तो उन्हे टेंडरिंग / भापासं में कार्य करने से वंचित कर दिया जाएगा और जमा की गई ईएमडी जब्त कर ली जाएगी। IF ANY INFORMATION FURNISHED by the applicant is found to be incorrect at a later stage, they shall be liable to be debarred from tendering / taking up works in HWB and the EMD deposited will be forfeited.
34	बोलीदाता द्वारा उद्धृत दरों में जीएसटी शामिल होना चाहिए तथा जीएसटी ठेकेदार द्वारा देय होगा तथा विभाग इस संबंध में किसी भी दावे पर विचार नहीं करेगा। Rates quoted by the bidder should be inclusive of GST and GST shall be payable by the contractor and department will not entertain any claim whatsoever in this respect.

35	सफल बोली दाता, जिनकी निवदा स्वीकृत की गई है, उनके लिए अनिवार्य है कि कोंट्रेक्ट हेतु काम करने वाले मजदरो के इ.पी.एफ. और इ.एस.आई. एवं युनिवर्सल अकाउंट नंबर (UAN) की सम्पूर्ण जानकारी प्रस्तुत करें। सफल बोलीदाता, जिनकी निविदा स्वीकृत की गई है, उनके लिए अनिवार्य है कि वह इ.पी.एफ. और इ.एस.आई. जैसे अंशदान संबंधित प्राधिकारी/ कार्यालय को जमा करें और इसके क्षतिपूर्ति हेतु साक्ष्य कागजात जमा करें तथा इसके साथ साथ भुगतान हेतु बिल भी जमा करें। ऐसे कागजात को जमा करने के बाद केवल बिल की ही कारवाई की जाएगी। It is mandatory that the successful bidder has to produce the details of ESI and EPF Universal Account Number (UAN) of the workers to be employed against this contract. It is mandatory that the successful bidder has to remit such contributions of EPF and ESI to the concerned authorities and submit the documentary evidence for reimbursement along with the bills for making payment. After submission of such documents only bill will be processed.
36	ठेकेदार को मुख्य श्रम आयुक्त (सी) के कार्यालय द्वारा अधिसूचित समय-समय पर श्रमिकों को हर महीने की 10 तारीख को या उससे पहले न्यूनतम मजदूरी का भुगतान करना आवश्यक है। यदि ठेकेदार उपरोक्त निर्धारित समय के भीतर एकभी कामगार के लिए भी इसका अनुपालन करने में विफल रहता है, तो उसे विलंबित दिनों की संख्या के आधार पर प्रतिदिन प्रति श्रमिक 100/- रुपये का जुर्माना देना होगा। यह जुर्माना चालू खाते/ अंतिम बिल के पारित होने के समय विभाग द्वारा वसूला जाएगा। Contractor is required to make payment of minimum wages from time to time as notified by the Office of the Chief Labour Commissioner(C), to the workmen on or before 10th of every month without fail. If contractor fails to comply the same even for a single workman within the stipulated given time above, then he has to pay penalty of Rs.100/- per day per workman basis up to number of days delayed. This penalty will be recovered by the department at the time of passing of Running Account/ Final Bill.
37	किसी भी फर्म/ठेकेदार को निविदा में भाग लेने से अयोग्य घोषित किया जा सकता है यदि फर्म के पास निम्नलिखित पाया जाता है : - i) योग्यता आवश्यकताओं के प्रमाण के खिलाफ प्रस्तुत किए गए फॉर्म, स्टेटमेंट आदि में भ्रामक या गलत घोषणा किया गया। ii) खराब प्रदर्शन के रिकॉर्ड जैसे कि काम छोड़ना अयोग्यता / डिबारमेंट किया गया या कार्य पूर्णता प्रमाण पत्र आदि में खराब प्रदर्शन का उल्लेख होना इत्यादि। Any firm / Contractor shall be subject to disqualification from participating in the tender if the firm is found to have following:- i) Made misleading or false declaration in the forms, statement etc. submitted against proof of qualification requirements. ii) Records of poor performance such as abandoning the work, disqualification / debarment or mention of poor performance in work completion certificate etc.
38	i) यदि बोली लगाने वाला एक व्यक्ति है, तो आवेदन पर उसके पूर्ण प्रकार के लिखित नाम और वर्तमान पते के ऊपर उसके द्वारा हस्ताक्षर किए जाएंगे। ii) यदि बोली लगाने वाला एक मालिकाना फर्म है, तो आवेदन पर मालिक द्वारा उसके पूर्ण लिखित नाम के ऊपर हस्ताक्षर किया जाएगा और उसकी फर्म का पूरा नाम उसके वर्तमान पते के साथ होगा। iii) यदि बोलीदाता साझेदारी में एक फर्म है, तो आवेदन पर फर्म के सभी भागीदारों द्वारा उनके पूर्ण प्रकार के लिखित नाम और वर्तमान पते या वैकल्पिक रूप से, फर्म के लिए पावर ऑफ अटॉर्नी रखने वाले एक भागीदार द्वारा हस्ताक्षर किए जाएंगे। iv) यदि बोली लगाने वाला एक सीमित कंपनी या निगम है, तो आवेदन पर हस्ताक्षर करने के लिए विधिवत अधिकृत व्यक्ति द्वारा हस्ताक्षर किए जाने चाहिए, जिसके पास आवेदन पर हस्ताक्षर करने के लिए मुख्तारनामा की एक प्रति होनी चाहिए। बोली लगाने वाले को मेमोरेंडम ऑफ आर्टिकल्स ऑफ एसोसिएशन की एक प्रति सार्वजनिक नोटरी द्वारा विधिवत रूप से सत्यापित करनी होगी। i) If the bidder is an individual, the application shall be signed by him above his full type written name and current address. ii) If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full type written name and the full name of his firm with its current address. iii) If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full type written names and current addresses or alternately, by a partner holding

	power of attorney for the firm. iv) If the bidder is a limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.
39	संभावित एजेंसियां स्वय इस बात से संतुष्ट हो जाएं कि उन्होने निविदा प्रस्तुत करने से पूर्व एनआईटी के सभी मापदंडों को पूरा कर लिया है। विभाग के पास यह अधिकार है कि निर्धारित मापदंडों को पूरा न करने वाली एजेंसियों की निविदाओं पर विचार नहीं कर सकता है। Prospective agencies shall satisfy themselves of fulfilling all the NIT criteria before submission of tender. Department reserves the right of non consideration of tender of the agencies not fulfilling the stipulated criteria.
40	बोली प्रसतुत करने की अवधि के अंदर स्केन एवं अपलोड किए गए दस्तावेजो की सूची : List of Documents to be scanned & uploaded within the period of bid submission:
i	सीए द्वारा प्रमाणित वित्तीय टर्न ओवर | Financial Turn Over certified by CA
ii	सीए द्वारा प्रमाणित लाभ एवं हानि विवरण | Profit & Loss statement certified by CA
iii	नवीनतम बैंक सोलवेंसी प्रमाण | Latest Bank Solvency Certificate
iv	गत 7 वर्षों के दौरान किए गए कार्य जिसमें इनका उल्लेख हो i) किस एजेसी के लिए कार्य किया गया है ii) कार्य का मूल्य iii) निर्धारित एवं वास्तविक कार्यपूर्ण अवधि. List of SIMILAR WORKS completed in last 7 years indicating: I) Agency for whom executed II) Value of Work, III) Stipulated and actual time of completion.
v	वर्तमान में किए गए कार्यों की सूची जिसमें इनका उल्लेख हो i) एजेसी का नाम ii) कार्य का मूल्य iii) निर्धारित एवं वास्तविक कार्यपूर्ण अवधि List of SIMILAR WORK in Hand indicating: I) Agency, II) Value of Work, III) Stipulated time of completion / present position.
vi	तकनीकी स्टाफ की सूची | List of Technical Staff
vii	**प्रमाण पत्र Certificates:**
a.	पंजीकरण प्रमाण पत्र यदि कोई है तो | Registration certificate, if any
b.	समान कार्य का कार्य आदेश, मात्रा की अनुसूची और कार्य पूरा होने का प्रमाण पत्र| Details of Similar work experience as Work order, Schedule of quantity, Work Completion Certificates showing work done value etc.
c.	GST हेतु पंजीकरण का प्रमाण पत्र | Certificate of Registration of GST.
d.	पेन (स्थायी लेखा संख्या) पंजीकरण | PAN (Permanent Account Number) Registration
e.	इ.पी.एफ. और इ.एस.आई. पंजीकरण प्रमाण पत्र | EPF & ESI registration certificate
viii	ईएमडी हेतु किसी अनुसूची बैंक का बी.सी / डी.डी/ एफडीआ/ एसटीडीआर या भारतकोश भुगतान की ई-रसीद | BC/DD/FDR/STDR of any Scheduled Bank or e-receipt of bharatkosh payment against EMD.
ix	(मूल प्रमाण पत्रों की स्केन प्रति अपलोड की जाए) (Scanned copy of original certificates to be uploaded)

19.5.26

(जैतुल हक **JAITUL HAQUE**)
विशेष कार्याधिकारी Officer On-Special Duty
भारत के राष्ट्रपति लिए एवं उनकी ओर से
For & On Behalf Of the President Of India

Terms & Conditions

1. General guidelines:

a) The bidders shall quote their rates in the excel file of the price bid uploaded in the CPP Portal only.

b) The quoted rate should be inclusive of all costs e.g. minimum wages including present rate of VDA, incidental charges, statutory obligations such as contribution towards ESI, EPF and any other central as well as State Government taxes, levies including profit. The bidder has to comply with the provisions of EPF scheme 1952 and all amendments issued from time to time in respect of employees engaged by him/her for this work. Any consequence arising due to non-complying of provisions as specified above shall be sole responsibility of the bidder. The work is to be carried out as required as per schedule of quantity.

2. Special Notes:

During the contract period the contractor shall abide by the following minimum requirement:

a) Payment of wages to the workmen to be done through bank on monthly basis and the proof of payment shall be produced along with the muster roll for verification.

b) Contractor shall deposit EPF and ESI on monthly basis and submit the proof of payment to the EIC every month.

c) The rates to be quoted by the firm shall be inclusive of GST as applicable. This, the vendor/firms may kindly note.

d) Contractor is required to make payment of minimum wages, EPF and ESI to the workmen on or before 10th of every month and submit the proof of payment on or before 15th of every month. If contractor failed to comply with any of Serial No. 2(a) & 2(b) even for a single workmen within the stipulated time given above, then he has to pay a penalty of Rs 100/- per day per workmen based up to the number of days delayed. This penalty will be recovered by the department at the time of passing of running account/final bill. If the contractor fails to comply with any of the above for the consecutive 03 months (Three Months) or as applicable period decided by the EIC, then the department will have the rights to take action as per applicable clauses of GCC and the penalty will be in addition to any penalty on account of Liquidated damages due to delay in execution of work subject to maximum limit as per GCC.

3. Scope of Work:

a) Along with the work mentioned in Sl No. 1 of BOQ, the worker has to assist in opening of boxes / cartons / gunny bags containing materials received against various POs/GeM contracts and count them, file purchase orders & contracts in their respective files and maintain the same, keep closed files in correct order and help in weeding out of old files when required and ssist in escorting trucks/vehicles from CISF Main Gate to Central Stores. The work is such that assisting in 04 receipts of items can be carried out by **one (01) skilled personnel** working eight (08) hours a day.

b) Along with the work mentioned in Sl No. 2 of BOQ, the worker has to assist in issue and accounting of materials for stores against RCIV/RV received from different sections and contracts on a daily basis, shift and arrange stock items on racks and shelves as per instruction. Ensure that physical balance matches with stock card and bin card. Prepare label marking and painting on items.
The work is such that assisting in 20 issue of items can be carried out by **one (01) high -skilled personnel** working eight (08) hours a day.

c) Along with the work mentioned in Sl No. 3 of BOQ, the worker has to assist in verification of stores and stock items on regular basis, arranging stock items in their correct location, open and close the shutter of central store on daily basis. The work is such that assisting in verification of 40 items can be carried out by **one (01) semi-skilled personnel** working eight (08) hours a day.

d) Along with the work mentioned in Sl No. 4 of BOQ, the worker has to clean shelves and racks inside central stores , sub-store, open yard and inflammable stores from time to time which involves dusting and cleaning of items kept in shelves and racks, clean weighbridge cabin and housekeeping work of stores offices. Handle daily dak from stores to administration. The work is such that 2 racks can be cleaned by **one (01) semiskilled personnel** working eight (08) hours a day.

e) For the work at Sl No: 5, 6 & 7 of BOQ, the contractor shall provide manpower as and when required.

4. Contractor's Scope:

a) One Safety shoes, two set cotton fabric protective clothes and one helmet for the deployed manpower shall be provided by the contractor and verified by the EIC within 1 month of work order issued, failing which appropriate action under clause no.2 of GCC shall be taken.

b) For executing the work mentioned in Sl No. 01 of BOQ the contractor shall deploy one (01) No. skilled personnel in regular basis on all working days.

c) For executing the work mentioned in Sl No. 02 of BOQ the contractor shall deploy one (01) No. high - skilled personnel in regular basis on all working days.

d) For executing the work mentioned in Sl No. 03 of BOQ the contractor shall deploy one (01) No. semiskilled personnel in regular basis on all working days.

e) For executing the work mentioned in Sl No. 04 of BOQ the contractor shall deploy one (01) No. semiskilled personnel in regular basis on all working days.

f) For executing the work mentioned in Sl No. 05 & 06 of BOQ the contractor shall deploy a minimum of four (04) Nos. of unskilled personnel on each occasion of loading/unloading as per requirement raised by EIC of the work. Such occasions shall arise once in a month on an average.

g) For executing the work mentioned in Sl No. 07 of BOQ the contractor shall deploy one (01) carpenter (skilled) and one (01) unskilled personnel as per requirement raised by EIC of the work.

h) Scope of Supply: For executing the above mentioned jobs, the contractor should also supply materials such as **Hand Gloves, Black Phenyl, Scissors, Hard & Soft Brooms, Mops, Cutting tools for opening items etc.**

5. Contractor's responsibility towards his employees:

a) The contractor should pay to their personnel minimum wages from time to time including VDA as notified by the Office of the Chief Labour Commissioner (C), New Delhi, Government of India.

b) Any breach of minimum wages condition will be liable for termination of the contract and the same would be dealt with accordingly. No escalation will be paid for this work. No extra payment over and above the quoted price will be paid will be paid. However, Minimum wages and VDA increased by the Ministry of Labour will be reimbursed extra during the contractual period as per the actual rate

as and when revised. ESI, EPF & GST on the additional amount will also be considered for reimbursement on submission of documentary evidences.

c) No work no pay will be applicable for the period of absence and deduction will be made as per operation basis.

d) Contractor should pay wages to their personnel by 10th of every month by means of direct payment to the beneficiary (worker's)account through RTGS/NEFT/ECS mode and a statement thereof showing the details like worker's name, Account No., Bank Name, IFSC Code, Amount, UTR number etc. should be submitted along with their bills of payment. The contractor should ensure that there is no scope for any grievance from the personnel on delayed payment of wages.

e) The employees engaged by the contractor will be in the pay roll of the contractor only and HWBF, Talcher will not be held responsible in any way.

f) Working personnel under the contract will not be entitled for any medical facility from the department except the first aid which is provided only during working days.

6. Payment of Bills:

a) Payment will be made by the Pay & Accounts Officer, HWBF, Talcher, on bi-monthly basis after satisfactory completion of the work during the period.

b) The vendor has to submit tax-invoice, wages sheet, bank statement for the payment of wages, attendance sheet, ESIC challan & contribution history, EPF challan cum return copy to the Engineer-in-charge after two months. Vendor would also require to sign the Measurement Book (MB) and RA Bill prepared by the EIC for processing of the payment.

c) Payment will be made through RTGS/NEFT mode only.

d) The payment is subject to TDS applicable under Income Tax Act, 1961. As per instruction by the Ministry of Finance, a recovery of Income Tax @ 2% of gross value of work done, will be made from all the bills in respect of this work and the amount so recovered will be credited to the Income Tax authorities and a certificate for the amount so credited will be uploaded to the website of Income Tax Authority by the Pay & Accounts Officer, HWBF, Talcher.

e) TDS @ 2% or as applicable U/S 51 of GST Act. 2017 will also be recovered from the bills and TDS thereof will be uploaded in GST portal by Pay & Accounts Officer, HWBF, Talcher. Any other taxes as per Government directives shall be deducted from each bill paid to the contractor, from time to time.

7. Validity of the Contract Period:

a) The contract will be in force for a period of twelve (12) months from the date of commencement of contract.

b) The OSD, Talcher reserves the right to short close the contract partly or terminate the entire contract, awarded to the vendor, as the case may be, at any time without assigning any reason thereof.

8. Acts to be complied with:

The Contract shall comply with all Central, State and Municipal Laws and rules and shall be solely responsible for complying with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the rules there under and the other enactments that may be applicable including the

Payment of Wages Act 1936, Factory Act 1948, Workmen's Compensation Act 1923 or any other applicable legislation and Municipal Bye-Laws or other Statutory rules and regulations, whatsoever in force. In so far as these are applicable, any obligations, financial or otherwise, imposed under any statutory enactments, rules and regulations; there under shall be the sole responsibility of the contractor.

9. Security and Safety Regulations:

a) Safety Regulation of HWBF, Talcher should be followed strictly during the entire period of work.

b) Engineer-in-charge of the work should get a work permit from the industrial safety officer before commencement of the work.

c) All the persons engaged in the present contract should have a Police Verification Certificate, valid identity proof. However due to security reasons, Security section of HWBF, Talcher may ask for specific identity proof / certification by local police as may be required.

d) All personnel connected with the consultant and their bags and baggage shall be liable for physical check both at the time of entry and exit by the security staff as per Department security regulation. The personnel are required to be in possession of individual identity card or passes.

10. Removal & Replacement of personnel:

a) Except for the Engineer-in-charge may otherwise agree no change shall be made in the personnel during the contract period. If for any reasons beyond the reasonable control of the vendor, it becomes necessary to replace any of the personnel, the vendor shall forthwith provide as a replacement of a person of equivalent experience acceptable to the Engineer-in-charge.

b) The Engineer-in-charge may require the contractor to dismiss or remove any person or persons, who may be incompetent or misconduct himself or has been charged with having criminal action or negligent in the proper performance of his duties. All such persons shall not again be employed in executing the job within the scope of the present contract.

11. Maintaining the Documents:

The Contractor should maintain the following Registers in respect of the work orders place on them so that the same may be produced to the Labour Enforcement Officer for inspection when the same is called for:

i) Attendance Register
ii) Register of Wages
iii) Register of Deductions
iv) Register of Overtime
v) Register of Fines
vi) Register of Advances
vii) Wage Slip
viii) Register of Person Employed

PERFORMA OF SCHEDULES

अनुसूची: **SCHEDULE :- 'A"**

ठेकेदार को जारी की जाने वाली सामग्रियों की अनुसूचीSchedule of materials to be issued to the contractor

क्र.सं. Sl. No	मद का विवरण**Description of item**	मात्रा **Quantity**	दर जिस पर ठेकेदार से सामग्री प्रभारित की जाएगी **Rates at which the Materials will be charged to the contractor**	जारी करने का स्थान **Place of issue**
1	2	3	4	5
1	पानी Water	आवश्यकता अनुसार As required	निःशुल्क Free of cost.	कार्य स्थल परAt site of work
2	विद्युत Electricity	--do--	--do--	--do--

कार्य स्थल पर एक स्थान पर विभाग द्वारा जल एवं विद्युत की व्यवस्था की जायेगी एवं ठेकेदार को अपने व्यय पर आवश्यक वितरण की व्यवस्था करनी होगी।Water and electricity will be provided by the department at one point at work site and the contractor shall arrange for required distribution at their cost.

अनुसूची: **SCHEDULE :- "B"**

मात्रा की अनुसूची Schedule of Quantity अलग से अपलोड की गई uploaded separately

अनुसूची **SCHEDULE :- "C" एनए NA**

ठेकेदार को किराए पर लेने के लिए अस्थायी बुनियादी ढांचे और उपकरण और संयंत्रों के लिए निर्धारित भूमि
Land earmarked for temp. infrastructures and Tools & plants to be hired to the contractor

अनुसूची **SCHEDULE :- "D"**

कार्य के लिए विशिष्ट आवश्यकताओं/दस्तावेजों के लिए अतिरिक्त समय-सारणी, यदि कोई हो, विशेष रूप से सुरक्षा दिशा-निर्देशों, गेट पास, लिफ्ट, टावर क्रेन आदि के लिए, Extra schedule for specific requirements / documents for the work, if anyParticularly for Security guidelines, Gate pass, lift, tower crane etc,	शून्य **Nil**

अनुसूची **SCHEDULE "E"**

जीसीसी का संदर्भ लेंRefer to GCC	अलग से संलग्न जीसीसी GCC attached separately

अनुसूची **SCHEDULE 'F'** एनआईटी और निविदा दस्तावेजों का संदर्भ**Reference to NIT & Tender Documents**

SL	शीर्षक **TITLE**	विवरण PARTICULARS	पृष्ठ PAGE
1	अनुबंध की शर्तें और उनमें परिवर्तन Conditions of contract and Changes there in	निविदा जमा करने की अंतिम तिथि तक जारी सभी संशोधनों के साथ जीसीसी-2014 को संशोधित और संशोधित किया गया।GCC-2014 modified & corrected up to date with all amendments issued till the last date of submission of tender.	
2	निविदा आमंत्रण सूचना (एनआईटी) संख्या Notice Inviting Tender (NIT) No.	HWBF/TAL/STORES/WO/2026-27/01	
3	निविदा आमंत्रण सूचना Notice Inviting Tender details	क्रय एवं भंडार निर्देशालय, भंडार एकक, भारी पानी बोर्ड सुबिधाये, तालचेर में वर्ष 2026-27 विविध सामग्री हैंडलिंग कार्य Miscellaneous Material Handling Job at DPS, Stores Unit, HWBF, Talcher for the year 2026-27	
4	कार्यक्षेत्र और कार्य का स्थान Scope and location of the work:	**भारी पानी बोर्ड सुविधाएं, तालचेर** HWBF, TALCHER	

5	खाचित्रों की सूची List of drawings	Nil	

6	कार्य के लिए समय सारिणीTime Schedule for the work:	12 महीने Months	
7	विनिर्देशों में यदि कोई हो तो परिवर्तनों की सूची List of changes if any in specifications:		
	a) तकनीकी विनिर्देश Technical Specifications -		
8	मात्रा की अनुसूची Schedule of Quantities	संलग्न Attached	

Reference to the Book of "Conditions & Clauses of Contract" to be followed for this work इस कार्य के लिए पालन की जाने वाली "शर्तों और अनुबंध की शर्तों" की पुस्तक का संदर्भ		GCC as attached with tender
कार्य का नाम Name of Work		एनआईटी के अनुसार As per NIT
कार्य की अनुमानित लागत Estimated cost of work :	Rs.**14,46,262/-** (Including GST)	एनआईटी के अनुसार As per NIT
i) बयाना राशि Earnest money	Rs. **28,925/-**	एनआईटी के अनुसार As per NIT
ii) प्रदर्शन गारंटी Performance Guarantee	निविदा मूल्य का 3%,3% of tendered value	निविदा के अनुसार As per Tender
iii) सुरक्षा जमा Security Deposit	निविदा मूल्य का 2.5% 2.5% of tendered value	निविदा के अनुसार As per Tender
सामान्य नियम और दिशाएं General Rules & Directions:		
निविदा आमंत्रण प्राधिकारी Tender inviting authority		विशेष कार्याधिकारी Officer On-Special Duty, HWBF (Talcher)
निष्पादित किए जाने वाले कार्य की मदों की मात्रा के लिए अधिकतम प्रतिशत, जिसके ऊपर खंड 12.2 और 12.3 के अनुसार दरें निर्धारित की जानी हैं। 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.		नीचे खंड-12 देखें See Clause-12 below

परिभाषाएँ Definitions:		
2(v)	प्रभारी अभियंता Engineer-in-charge	सहायक भडांर अधिकारी Asst. Stores Officer/as per Work Order
2(viii)	स्वीकृति प्राधिकारी Accepting Authority	विशेष कार्याधिकारी / Officer On-Special Duty, HWBF (Talcher)
2(x)	सभी ओवरहेड्स और मुनाफे को कवर करने के लिए सामग्री और श्रम की लागत पर प्रतिशत Percentage on cost of materials and labour to cover all overheads & profits	**80%**
2(xii)	विभाग,Department	भारी पानी बोर्ड Heavy Water Board, परमाणु ऊर्जा विभाग Department of Atomic Energy
9(ii)	विभाग का मानक अनुबंध फॉर्म standard Contract Form of Dept.	सीपीडब्ल्यूडीफॉर्म 8/7 जैसाकि 2014 तकसंशोधितऔरसहीकियागयाहै।जैसाकिएचडब्ल्यूबीएफ) तालचेर (द्वाराअपनायागयाहै CPWD form 7/8 as modified & corrected upto 2014 .as adopted by HWBF, (Talcher)

खंडClause-1 :1	
i) स्वीकृति पत्र/डब्ल्यूओ जारी होने की तारीख से निष्पादन गारंटी जमा करने के लिए अनुमत समय। Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance / WO.	07 दिन days
ii) प्रति दिन प्रदर्शन गारंटी के 0.1% की दर से विलंब शुल्क के साथ अवधि (ऊपर (i) में प्रदान की गई) से परे अधिकतम स्वीकार्य विस्तार Maximum allowable extension beyond the period (provided in (i) above.) with late fee @0.1%of the performance guarantee per day	07 दिन days

खंडClause-2 :e – 2	
धारा 2 के तहत मुआवजा तय करने के लिए प्राधिकरण। Authority for fixing compensation under clause 2.	विशेष कार्याधिकारी/ Officer On-Special Duty, HWBF (Talcher)
खंडClause-2 A: Compensation for delay	Yes Applicable
खंडClause-5 :- 5	
स्वीकृति पत्र जारी करने की तारीख से दिनों की संख्या / प्रारंभ की तारीख की गणना के लिए डब्ल्यूओ। Number of days from the date of issue of letter of acceptance / WO for reckoning date of start.	07 days
माइल स्टोन नीचे दी गई तालिका के अनुसार: Mile stone(s) as per table given below:	

माइल स्टोन की तालिकाTable of Mile Stone(s) : **NA**

क्र.सं. Sl. No.	माइलस्टोन का विवरण (भौतिक) Description of Milestone (Physical)	स्वीकृत समय दिनों में (शुरुआत की तारीख से) Time Allowed in days(from date of start)	माइलस्टोन हासिल न करने की स्थिति में रोकी जाने वाली राशि Amount to be with-held in case of non achievement of milestone

कार्य निष्पादन के लिए स्वीकृत कार्य निष्पादन के लिए स्वीकृत समय TIME ALLOWED FOR EXECUTION OF WORK To be allowed for execution of work		12 माह 12 Months
क्लॉज लागूClause applicable – (6 or 6A applicable – (6 or 6A)	मैन्युअल बिलिंग के लिए क्लॉज 6 या कम्प्यूटरीकृत बिलिंग के लिए क्लॉज 6ए Clause 6 for Manual Billing or Clause 6A for Computerized Billing	क्लॉज Clause 6

खण्डClause-7	
अंतरिम भुगतान के पात्र होने के लिए अंतिम भुगतान के बाद से एकत्र की गई सामग्री, यदि कोई हो, के लिए कुल भुगतान/अग्रिम के समायोजन के साथ-साथ किया जाने वाला सकल कार्य। 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.	Rs 2 Lakhs

खण्डClause-10A	साइट लैब पर ठेकेदार द्वारा प्रदान किए जाने वाले परीक्षण उपकरणों की सूची - साइट की आवश्यकता के अनुसार।List of testing equipments to be provided by the contractor at site lab – As per site requirement.	
खंड Clause-10B	क्या खंड 10बी लागू होगा Whether Clause 10 B shall be applicable (यदि हां, तो निविदा शर्तों के खंड का पालन किया जाना चाहिए) **(If Yes, Clause of Tender Condition to be followed)**	
10(B) (i)	खराब न होने वाली सामग्री पर सुरक्षित अग्रिम Secured Advance on Non-perishable Materials :	NA
10 (B) (ii)	मोबिलाइजेशन एडवांस Mobilisation Advance	स्वीकार्य नहीं है Not admissible
धारा- Clause-10C		

	कार्य के मूल्य के प्रतिशत के रूप में अभिव्यक्त श्रम का घटक Component of labour expressed as percent of value of the work	**70%**

धारा धारा **Clause-10CA** लागू नहीं **Not Applicable**			
क्र.सं Sl.No	इस खंड के अंतर्गत आने वाली सामग्री Materials Covered under this Clause	निकटतम सामग्री जिसके लिए अखिल भारतीय थोक मूल्य सूचकांक का पालन किया जाना है। Nearest Material for which All India Wholesale Price Index is to be followed.	मूल दर **Basic Rate**

धारा **Clause-10CC** लागू नहीं **Not Applicable**	
कार्यों के लिए निविदा प्राप्त होने के बाद कीमतों/मजदूरी में वृद्धि/कमी के कारण भुगतान **Payment due to Increase / Decrease in Prices/ Wages after Receipt of Tender for Works**	**Not Applicable**

खंड **Clause-11**	
इस कार्य के निष्पादन के लिए अनुपालन की जाने वाली विशिष्टताएं Specifications to be followed for execution of this work	निविदा के साथ संलग्न तकनीकी विशिष्टताओं के अनुसार और प्रभारी अभियंता के निर्देशानुसार। As per technical specification attached with tender and *as per the direction of Engineer-in-Charge.*
खंड **Clause-12**	
विचलन सीमा जिसके आगे GCC के खंड 12.2 और 12.3 अनुरक्षण कार्य के लिए लागू होंगे Deviation Limit beyond which clauses 12.2 & 12.3 of GCC shall apply for maintenance work	**15%**
खंड **Clause-16**	
घटी हुई दरें तय करने के लिए सक्षम प्राधिकारी Competent Authority for deciding reduced rates.	विशेष कार्याधिकारी/ Officer On-Special Duty, HWBF (Talcher)
खंड **Clause-17**	
दोष दायित्व अवधि Defect Liability Period	छै कैलेंडर महीने **Six Calendar Months**
खंड **Clause-18 (**(कार्यों के आधार पर इकाइयों द्वारा शामिल किया जाना)***To be incorporated by the units based on the works)***	
साइट पर ठेकेदार द्वारा तैनात की जाने वाली अनिवार्य मशीनरी, टूल्स और प्लांट्स की सूची List of mandatory machinery, tools & plants to be deployed by the contractor at site:	साइट की आवश्यकता के अनुसार **As per site requirement.**

ठेकेदार द्वारा तैनात की जाने वाली मशीनरी, उपकरण और संयंत्रों की सूची कम से कम है। विभाग को बिना किसी अतिरिक्त लागत के काम की प्रगति को बनाए रखने के लिए ठेकेदार सभी मशीनरी, उपकरण और संयंत्रों को तैनात करेगा

The list of machinery, tools & plants to be deployed by the Contractor are at minimum. The contractor shall deploy all machinery, tools & plants in order to maintain the progress of the work without any extra cost to the Department.

खंड **Clause-36** तकनीकी प्रतिनिधियों की आवश्यकता और वसूली दर **Requirement of Technical Representative(s) and recovery Rate**						
Sl. No	तकनीकी प्रतिनिधि की कोई न्यूनतम योग्यता Minimum Qualification of Technical Representative	अनुशासन Discipline	पदनाम (प्रधान तकनीकी / तकनीकी प्रतिनिधि) Designation (Principal Technical / Technical representative)	न्यूनतम।Min. ऍक्स्प. वर्षों में Exp. in yrs.	नहीं No	खंड 36(i) के प्रावधान को पूरा न करने की स्थिति में प्रति माह कोई दर जिस पर ठेकेदार से वसूली की जाएगी।Rate per month at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i).
1	नहीं NA					

खंड **Clause-42**		
(i)	(a) के आधार पर सैद्धांतिक मात्रा निर्धारित करने के लिए अनुसूची/विवरण:। Schedule / statement for determining theoretical quantity on the basis of :	जैसा कि आइटम विवरण (एसओक्यू) में उल्लेख किया गया है। निर्माताओं के विनिर्देशों के अनुसार इस तरह के मार्गदर्शन के अभाव में As mentioned in the item description (SOQ). In the absence of such guidance as per manufacturers specifications.
(ii)	सैद्धांतिक मात्राओं पर अनुमेय भिन्नताएँ **Variations permissible on theoretical quantities.**	
a	`सीमेंट **Cement**	
	i) 5 लाख रुपये तक की अनुमानित लागत वाले कार्यों के लिए for works with estimated cost put to tender upto***Rs.5 Lakhs***	**N.A.**
	ii) अनुमानित लागत वाले कार्यों के लिए रु. 5 लाख से अधिक की निविदा देना for works with estimated cost put to tender more than ***Rs.5 Lakhs***	**N.A.**
b	बिटुमेन सभी कार्यों के लिए Bitumen for All works	**N.A.**
c	इस्पात सुदृढीकरण और संरचनात्मक इस्पात खंड Steel reinforcement and structural steel sections	**N.A.**
d	अन्य सभी सामग्री All other materials.	**`Nil**

अनुमेय भिन्नता से परे मात्राओं के लिए वसूली दरें ***RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION***

Sl. No	मदों का विवरण **Description of Item**	अंको एवं शब्दों में दरें जिस पर ठेकेदार से वसूली की जायेगी**Rates in figures & words at which recovery shall be made from the Contractor.**	
		अनुमेय भिन्नता से अधिक Excess beyond permissible variation	अनुमेय भिन्नता सेपरे कम उपयोगLess use beyond the permissible variation
1.	सीमेंट Cement	**Nil**	**N.A.**
2.	इस्पात सुदृढ़ीकरण Steel reinforcement	**Nil**	**N.A.**
3.	स्ट्रक्चरल स्टील Structural steel	**Nil**	**N.A.**

Madhusudan 18/05/26

19.5.26

18/5/26

18/5/26

(जैतुल हक JAITUL HAQUE)

विशेष कार्याधिकारी Officer On-Special Duty

भारत के राष्ट्रपति के लिए और उनकी ओर से

For & on behalf of President of India

Government Of India

Heavy Water Plant (Talcher)

GENERAL RULES AND DIRECTIONS

General Rules & Directions

1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted in public places and signed by the officer inviting tender or by publication in News papers as the case may be.

This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power-of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952

3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.

Applicable for Item Rate Tender only

4. Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.

Applicable for Percentage Rate Tender only

4A. In case of Percentage Rate Tenders, tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-B, he will be willing to execute the work. **The tender submitted shall be treated as invalid if :-**

(i) The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.

(ii) The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender

iii) The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender:

Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

5. The officer inviting tender or his duly authorized assistant will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule-I. In the event of a tender being rejected, the earnest money shall thereupon be returned to the contractor remitting the same, without any interest.

6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.

7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.

8. The memorandum of work tendered for and the schedule of materials to be supplied by the department and their issue-rates, shall be filled and completed in the office of the officer inviting tender before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender

9. The tenderers shall sign a declaration under the officials Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them.

9A. Use of correcting fluid, anywhere in tender document is not permitted. Such tender is liable for rejection.

Applicable for Item Rate Tender only

10. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

Applicable for Percentage Rate Tender only

10A. In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.

11. In the case of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.

Applicable for Item Rate Tender only

12. All rates shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be up to two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.

Applicable for Percentage Rate Tender only

12A. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end.

13. (i) The Contractor, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form.

(ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 2.5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above and the **earnest money deposited at the time of tenders, will be treated as a part of the Security Deposit**. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit Receipt of a Scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed.

14. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.

15. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act, 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.

16. The contractor shall give a list of both Gazetted and non-Gazetted HWP TALCHER employees related to him.

17. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.

18. The tender for composite work includes, in addition to building work, all other works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.

19. The contractor shall submit list of works which are in hand (progress) in the following form:-

Name of Work	Name and particulars of Divn. Where work is being executed	Value of Work	Position of works in Progress	Remarks

20. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Officer On Special Duty may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

CONDITIONS OF CONTRACT

Definitions

1 The **Contract** means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the President of India and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in- Charge and **all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.**

2 In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-

(i) The expression **works** or **work** shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.

(ii) The **Site** shall mean the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.

(iii) The **Contractor** shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.

(iv) The **President** means the President of India and his successors.

(v) The **Engineer-in-charge** means the Engineer Officer who shall supervise and be in charge of the work and who shall sign the contract on behalf of the President of India as mentioned in Schedule 'F' hereunder.

(vi) **Government or Government of India** shall mean the President of India.

(vii) The terms **General Manager/Officer On Special Duty/ Chief Executive** **includes** their authorized representatives.

(viii) **Accepting Authority** shall mean the authority mentioned in Schedule 'F'.

(ix) **Excepted Risk** are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Government's faulty design of works.

(x) **Market Rate** shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits.

(xi) **Schedule(s)** referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued up to the date of receipt of the tender.

(xii) **Department** means HWP TALCHER/HWB or any department of Government of India which invites tenders on behalf of President of India as specified in schedule 'F'.

(xiii) **District Specifications** means the specifications followed by the State Government in the area where the work is to be executed.

(xiv) **Tendered value** means the value of the entire work as stipulated in the letter of award.

(xv) **Date of commencement of work:** The date of commencement of work shall be the date of start as specified in schedule 'F' or the first date of handing over of the site, whichever is later, in accordance with the phasing if any, as indicated in the tender document.

(xvi) GST shall mean Goods and Service Tax – Central, State and Inter State

Scope and Performance

3 Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.

4 Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.

5 The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract.

Works to be carried out

6 The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule- B) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles

Sufficiency of Tender

7 The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

Discrepancies and Adjustment of Errors

8 The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special clauses in preference to General Conditions.

8.1 In the case of discrepancy between the schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed:-

(i) Description of Schedule of Quantities.
(ii) Particular Specification and Special Condition, if any.
(iii) Drawings.
(iv) Department specifications
(iv) CPWD Specifications.
(v) Indian Standard Specifications of B.I.S.

8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.

8.3 Any error in description, quantity or rate in Schedule of Quantities or any omission there from

shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.

Signing of Contract

9 The successful tenderer/ contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of :-

(i) The notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

(ii) Standard C.P.W.D. Form as mentioned in Schedule 'F' consisting of:

(a) Various standard clauses with corrections up to the date stipulated in Schedule 'F' along with annexures thereto.

(b) C.P.W.D. & HWP TALCHER/HWB/DAE Safety Code.

(c) Model Rules for the protection of health, sanitary arrangements for workers employed by HWB/HWP TALCHER or its contractors.

(d) HWP TALCHER/HWB//DAE Contractor's Labour Regulations.

(e) List of Acts and omissions for which fines can be imposed.

(iii) No payment for the work done will be made unless contract is signed by the contractor.

CLAUSES OF CONTRACT

INDEX

CLAUSE	TITLE OF THE CLAUSE	PAGE
1	Performance Guarantee	
1-A	Recovery of Security Deposit	
2	Compensation for delay	
2A	Incentive for early Completion	
3	When Contract can be determined - Powers of Engineer-in-Charge	
3-A	Closure of Contract on non-commencement of work	
4	Contractor liable to Pay Compensation even if action not taken under Clause - 3	
5	Time & Extension for delay	
6&6-A	Measurements of Work Done and Computerized Measurement Book	
7	Payment on Intermediate Certificate to be regarded as Advances, Payment in composite contracts.	
8	Completion Certificate and Completion Plans	
8A&8B	Contractor to keep Site clean & Completion Plans to be Submitted by the Contractor	
9&9A	Payment of Final Bill & Payment of Contractor's Bills to Banks	
10	Materials supplied by Government	
10 A	Materials to be provided by the Contractor	
10 B-(i)	Secured Advance on Non-Perishable Materials	
10B-(ii)	Mobilization Advance	
10B-(iii)	Plant, Machinery & Shuttering Material Advance	
10B-(iv)	Interest & Recovery	
10C	Payment on Account of increase in Prices / Wages due to Statutory Order(s)	
10CA	Payment due to Variation in Prices of Materials after receipt of Tender	
10CC	Payment due to Increase/Decrease in Prices/Wages (excluding materials covered under clause 10CA) after Receipt of Tender for Works	
10 D	Excavated / Dismantled Materials will be Govt. property	
11	Work to be executed in Accordance with Specifications, Drawings, Orders etc.	
12	Deviations / Variations : Extent and Pricing	
12.1	Time Extension due to Additional Cost over Tendered Value	
12.2	Deviation, Extra items and Pricing	
(a)&(b)	Deviation, Substituted items/ Deviated Quantities, Pricing	
12.3	Decrease in Rates for deviated quantities	

12.4	Claims for additional works ordered by the Engineer-in-Charge	
12.5	Works treated as related to Foundation	
12.6	Incidental operations for proper execution of item deemed to be included in the Item Rate.	
13	Foreclosure of Contract due to Abandonment or Reduction in Scope of Work	
14	Carrying out part work at Risk & Cost of contractor	
15	Suspension of Work	
15A	Compensation in case of Delay of Supply of Material by Govt.	
16	Action in case of Work not done as per Specifications	
17	Contractor Liable for Damages, defects during defect liability period	
18	Contractor to Supply Tools & Plants etc.	
18-A	Recovery of Compensation paid to Workmen	
18-B	Ensuring Payment & Amenities to Workers if Contractor fails	
19	Labour Laws to be Complied by the Contractor	
19-A	No Labour below 18 years.	
19-B	Payment of Wages	
19-C	Safety Provisions for Labour & Penalty on Default	
19-D	Submission of Fortnightly Labour Chart by every fortnight	
19-E	Contractor to Comply Govt. Rules on Health & Sanitary Arrangements for Workers	
19-F	Leave and Pay, Maternity Benefit Rules	
19-G	Penalty for Non Compliance of Labour Regulations, Amenities at the cost of contactor.	
19-H	Providing Hutment, Water supply, Drainage, Sanitation etc. for Workers	
19-I	Removal of Incompetent Workers	
19-J	No Part of Building to be Occupied - Action on Breach thereof	
19-K	Employment of Skilled / Semi skilled Workers	
19-L	Contribution of ESI and EPF on the part of the employer shall be paid by the contractor	
20	Minimum Wages Act to be Complied with	
21	Work Not to be Sub-let / Action in Case of insolvency	
22	Sums Payable by Way of Compensation without reference to the actual loss or damage.	
23	Changes in Firm's Constitution to be Intimated	
24	Works to be Under Direction subject to approval of Engineer-in-Charge	

25	Settlement of Disputes & Arbitration	
26	Contractor to Indemnify Govt. against Patent Rights	
27	Lump sum Provision in Tender	
28	Action where no Specifications are Specified	
29	Withholding & Lien in respect of Sums due from Contractor	
29-A	Lien in respect of Claims in Other Contracts	
30	Employment of Coal Mining or Controlled area Labour not Permissible.	
31&31-A	Unfiltered water supply & Departmental water supply, if available	
32	Alternate Water arrangement	
33	Return of Surplus Materials	
34	Hire of Plant & Machinery	
35	Conditions relating to use of Asphaltic Materials	
36	Employment of Technical Staff and Employees	
37	Levy / Taxes payable by Contractor	
38	Conditions for Reimbursement of Levy/ Taxes if Levied after Receipt of Tenders	
39	Termination of Contract in case of Death	
40	If Relative Working in DAE, then the Contractor not Allowed to Tender	
41	No Gazetted Officer/Engineer Allowed to work as a Contractor within one Year of Retirement	
42	Return of Materials & Recovery for Excess Material issued	
43	Compensation during War-Like Situations	
44	Apprentices Act - Provisions to be Complied with	
45	Release of Security Deposit after Labour Clearance	

CLAUSES OF CONTRACT

CLAUSE 1

Performance Guarantee

(i) The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (notwithstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

(ii) The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

(iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in- Charge may claim the full amount of the Performance Guarantee.

(b) Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.

(iv) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India.

CLAUSE 1A

Recovery of Security Deposit

The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit Government at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 5% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 2.5% of the tendered value of the work. Such deductions will be made and held by Government by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in

cash or in the form of Government Securities or fixed deposit receipts. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or may become due to the contractor by Government on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favor of the Engineer-in-Charge, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.

The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lac. Provided further that the validity of bank guarantee including the one given against the earnest money shall be in conformity with provisions contained in clause 17 which shall be extended from time to time depending upon extension of contract granted under provisions of clause 2 and clause 5.

In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

Note-1: Government papers tendered as security will be taken at 5% (five per cent) below its market price or at its face value, whichever is less. The market price of Government paper would be ascertained by the Divisional Officer at the time of collection of interest and the amount of interest to the extent of deficiency in value of the Government paper will be withheld if necessary.

Note-2: Government Securities will include all forms of Securities mentioned in Rule No. 274 of the G.F. Rules except fidelity bond. This will be subject to the observance of the condition mentioned under the rule against each form of security.

Note-3: Note 1 & 2 above shall be applicable for both clause 1 and 1A

CLAUSE 2

Compensation for Delay

If the contractor fails to maintain the required progress in terms of clause 5 or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/month (as applicable) that the progress remains below that specified in Clause 5 or that the work remains incomplete.
This will also apply to items or group of items for which a separate period of completion has been specified.

(i) Compensation for delay of work — @ 1.5 % per month of delay to be computed on per day basis

Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the item

or group of items of work for which a separate period of completion is originally given.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of Time. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

Incentive for early completion

CLAUSE 2A: Not Applicable.

CLAUSE 3

When Contract can be Determined

Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

(i) If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or unworkman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.

(ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.

(iii) If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.

(iv) If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.

(v) If the contractor shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government.

(vi) If the contractor shall enter into a contract with Government in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.

(vii) If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering **or commits breach of Integrity Agreement.**

(viii) If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.

(ix) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.

(x) If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.

(xi) If the contractor assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-in-Charge.

When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the President of India shall have powers:

(a) To determine the contract as aforesaid (of which termination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government

(b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work.

In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

CLAUSE 3A

In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract. In case contractor wants to close the contract, he shall give notice to the department stating the failure on the part of department. In such eventuality, the Performance Guarantee of the contractor shall be refunded within following time limits :

(i) If the Tendered value of work is up to Rs. 45 lac :	15 days
(ii) If the Tendered value of work is more than Rs. 45 lac and up to Rs. 2.5 Crore :	21 days
(iii) If the Tendered value of work exceeds Rs. 2.5 Crore :	30 days

If Performance Guarantee is not released within prescribed time limit, then a simple interest @ 0.25% per month shall be payable on Performance Guarantee amount to the contractor from the date of expiry of prescribed time limit.

A compensation for such eventuality, on account of damages etc. shall be payable @ 0.25% of tendered amount subject to maximum limit of Rs. 10 lacs.

CLAUSE 4

In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

Contractor liable to pay Compensation even if action not taken under Clause 3

CLAUSE 5

Time and Extension for Delay

The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the performance guarantee absolutely.

5.1 As soon as possible after the Contract is concluded, the Contractor shall submit a T time and Progress Chart for each mile stone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. 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 the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in Schedule 'F'.

(a) Project Management shall be done by using project management software for works costing more than Rs. 5 Crore.

(b) The project management shall be done using M.S. Project software for works costing more than Rs. 5 Crore and up to Rs. 20 Crore.

(c) For works costing more than Rs. 20 Crore, project management shall be done using Primavera Software.

PROGRAMME CHART

(i) The Contractor shall prepare an integrated programme chart in MS Project/Primavera software for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier and submit the same for approval to the Engineer-in- Charge within ten days of award of the contract. A recovery of Rs. 2500/- (for works costing up to Rs. 20 Crores) / Rs. 5000/- (for works costing more than Rs. 20 Crores) shall be made on per day basis in case of delay in submission of the above programme.

(ii) The programme chart should include the following:
(a) Descriptive note explaining sequence of the various activities.
(b) Network (PERT/CPM/BAR CHART).
(c) Programme for procurement of materials by the contractor.
Programme of procurement of machinery / equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor. In addition to above, to achieve the progress of Work as per programme, the contractor must bring at site adequate shuttering material required for cement concrete and R.C.C. works etc. for three floors within one month from the date of start of work till the completion of RCC work as per requirement of work. The contractor shall submit shuttering schedule adequate to complete structure work within laid down physical milestone.

(iii) If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programme referred above or after rescheduling of milestones, the contractor shall produce a revised programme within 7 (seven) days, showing the modifications to the approved programme to ensure timely completion of the work. The modified schedule of programme shall be approved by the Engineer in Charge. A recovery of Rs. 2500/- (for works costing up to Rs. 20 Crores) / Rs. 5000/- (for works costing more than Rs. 20 Crores) shall be made on per day basis in case of delay in submission of the modified programme.

(iv) The submission for approval by the Engineer-in-Charge of such programme or such particulars shall not relieve the contractor of any of the 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.

(v) The contractor shall submit the progress report using MS Project/Primavera software with base line programme referred above for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery Rs. 2500/ - (for works costing up to Rs. 20 Crores) / Rs. 5000/- (for works costing more than Rs. 20 Crores) shall be made on per day basis in case of delay in submission of the monthly progress report.

5.2 If the work(s) be delayed by:-

(i) Force Majure, or

(ii) Abnormally bad weather, or

(iii) Serious loss or damage by fire, or

(iv) Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or

(v) Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or

(vi) Non-availability of stores, which are the responsibility of Government to supply or

(vii) Non-availability or break down of tools and Plant to be supplied or supplied by Government or

(viii) Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the authority as indicated in Schedule 'F' but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.

5.3 Request for rescheduling of Mile stones and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form to the authority as indicated in Schedule 'F'. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

5.4 In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time and reschedule the mile stones for completion of work. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 3 months or 4 weeks of the date of receipt of such request respectively. Non application by the contractor for extension of time/ rescheduling of the milestones shall not be a bar for giving a fair and reasonable extension/ rescheduling of the milestones by the authority as indicated in Schedule 'F' and this shall be binding on the contractor.

CLAUSE 6

Measurements of Work Done

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement, the value in accordance with the contract of work done.

All measurement of all items having financial value shall be entered in Measurement Book and/or level field book so that a complete record is obtained of all works performed under the contract.

All measurements and levels shall be taken jointly by the Engineer-in-Charge or his authorized representative and by the contractor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

If for any reason the contractor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and the Department shall not entertain any claim from contractor for any loss or damages on this account.

If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.

The contractor shall give, not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge of the work, before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

CLAUSE 6A

Computerized Measurement Book

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.

All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works performed under the contract.

All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission

to the Engineer-in-Charge for the dated signatures by the Engineer-in- Charge and the contractor or their representatives in token of their acceptance.

Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in- Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the Divisional Office records, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Division Office for payment. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the department.

The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the "bill. Thereafter, this bill will be processed by the Division Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his representative.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.

The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or

levels

It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

CLAUSE 7

Payment on Intermediate Certificate to be Regarded as Advances

No payment shall be made for work, estimated to cost Rs. Twenty thousand or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. Twenty thousand, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, Engineer-in-Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Asstt. Engineer together with the account of the material issued by the department, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer- in-Charge, the period often working days will be extended to fifteen working days. In case of delay in payment of intermediate bills after 45 days of submission of bill by the contractor provided the bill submitted by the contractor found to be in order, a simple interest@ 7.5% per annum shall be paid to the contractor from the date of expiry of prescribed time limit which will be compounded on yearly basis.

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Asstt. Engineer to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including

sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill by taking detailed measurements thereof.

Payments in composite Contracts

In case of composite tenders, running payment for the major component shall be made by Engineer-in-Charge of major discipline to the main contractor. Running payment for minor component shall be made by the Engineer-in-Charge of the discipline of minor component to the main contractor.

In case main contractor fails to make the payment to the contractor associated by him within 15 days of receipt of each running account payment, then on the written complaint of contractor associated for such minor component, Engineer in charge of minor component shall serve the show cause to the main contractor and if reply of main contractor either not received or found unsatisfactory, he may make the payment directly to the contractor associated for minor component as per the terms and conditions of the agreement drawn between main contractor and associate contractor fixed by him. Such payment made to the associate contractor shall be recovered by Engineer-in-charge of major or minor component from the next R/A/ final bill due to main contractor as the case may be.

CLAUSE 8

Completion Certificate and Completion Plans

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

CLAUSE 8A

Contractor to Keep Site Clean

When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing, colour washing, painting etc., on walls, floor, windows, etc shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done: without waiting for the actual completion of all the other items of work in the contract. In case the contractor fails to comply with the requirements of this clause, the Engineer-in-Charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer-in-Charge shall give ten days notice in writing to the contractor.

CLAUSE 8B

Completion Plans to be Submitted by the Contractor

The contractor shall submit completion plan as required vide General Specifications for Electrical works (Part-I internal) 2005 and (Part-ll External) 1994 as applicable within thirty days of the completion of the work.

In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs.15,000 (Rs. Fifteen thousand only) as may be fixed by the Engineer In Charge concerned and in this respect the decision of the Engineer In Charge shall be final and binding on the contractor.

The contractor shall submit completion plan for water, sewerage and drainage line plan within thirty days of the completion of the work.

In case, the contractor fails to submit the completion plan as aforesaid,, the department will get it done through other agency at his cost and actual expenses incurred plus Rs. 15,000/-for the same shall be recovered from the contractor.

CLAUSE 9

Payment of Final Bill

The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the Engineer-in-Charge or his authorized Asstt. Engineer, complete with account of materials issued by the Department and dismantled materials.

(i) If the Tendered value of work is up to Rs. 45 lac : 2 months

(ii) If the Tendered value of work is more than Rs.45lac and u pto Rs. 2.5Crore: 3 months

(iii) If the Tendered value of work exceeds Rs. 2.5 Crore : 6 months

CLAUSE 9A

Payment of Contractor's Bills to Banks

Payments due to the contractor may, if so desired by him, be made to his bank, registered financial, co-operative or thrift societies or recognized financial institutions instead of direct to him provided that the contractor furnishes to the Engineer-in-Charge

(1) an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, co-operative or thrift societies or recognized financial institutions to receive payments and

(2) his own acceptance of the correctness of the amount made out as being due to him by Government or his signature on the bill or other claim preferred against Government before settlement by the Engineer-in-Charge of the account or claim by payment to the bank, registered financial, co-operative or thrift societies or recognized financial institutions.

While the receipt given by such banks; registered financial, co-operative or thrift societies or recognized financial institutions shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank, registered financial, co-operative or thrift societies or recognized financial institutions.

Nothing herein contained shall operate to create in favor of the bank; registered financial, co-operative or thrift societies or recognized financial institutions any rights or equities vis-a-vis the President of India.

CLAUSE 10

Materials supplied by Government

Materials which Government will supply are shown in Schedule 'A' which also stipulates quantum, place of issue and rate(s) to be charged in respect thereof. The contractor shall be bound to procure them from the Engineer-in-Charge.

As soon as the work is awarded, the contractor shall finalise the programme for the completion of work as per clause 5 of this contract and shall give his estimates of materials required on the basis of drawings/or schedule of quantities of the work. The Contractor shall give in writing his requirement to the Engineer-in-Charge which shall be issued to him keeping in view the progress of work as assessed by the Engineer-in-Charge, in accordance with the agreed phased programme of work indicating monthly requirements of various materials. The contractor shall place his indent in writing for issue of such materials at least 7 days in advance of his requirement.

Such materials shall be supplied for the purpose of the contract only and the value of the materials so supplied at the rates specified in the aforesaid schedule shall be set off or deducted, as and when materials are consumed in items of work (including normal wastage) for which payment is being made to the contractor, from any sum then due or which may therefore become due to the contractor under the contract or otherwise or from the security deposit. At the time of submission of bills, the contractor shall certify that balance of materials supplied is available at site in original good condition.

The contractor shall submit along with every running bill (on account or interim bill) material wise reconciliation statements supported by complete calculations reconciling total issue, total consumption and certified balance (diameter/section-wise in the case of steel) and resulting variations and reasons therefore. Engineer-in-Charge shall (whose decision shall be final and binding on the contractor) be within his rights to follow the procedure of recovery in clause 42 at any stage of the work if reconciliation is not found to be satisfactory.

The contractor shall bear the cost of getting the material issued, loading, transporting to site, unloading, storing under cover as required, cutting assembling and joining the several parts together as necessary. Notwithstanding anything to the contrary contained in any other clause of the contract all stores/materials so supplied to the contractor or procured with the assistance of the Government shall remain the absolute property of Government and the contractor shall be the trustee of the stores/materials, and the said stores/materials shall not be removed/disposed off from the site of the work on any account and shall be at all times open to inspection by the Engineer-in-Charge or his authorized agent. Any such stores/materials remaining unused shall be returned to the Engineer-in-Charge in as good a condition in which they were originally supplied at a place directed by him, at a place of issue or any other place specified by him as he shall require, but in case it is decided not to take back the stores/materials the contractor shall have no claim for compensation on any account of such stores/materials so supplied to him as aforesaid and not used by him or for any wastage in or damage to in such stores/materials.

On being required to return the stores/materials, the contractor shall hand over the stores/ materials on being paid or credited such price as the Engineer-in-Charge shall determine, having due regard to the condition of the stores/materials. The price allowed for credit to the contractor, however, shall be at the prevailing market rate not exceeding the amount charged to him, excluding the storage charge, if any. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to account for contravention of the terms of the licences or permit and/or for criminal breach of trust, be liable to Government for all advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach. Provided that the contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non-supply thereof all or any such materials and stores provided further that the contractor shall be bound to execute the entire work if the materials are supplied by the Government within the original scheduled time for completion of the work plus 50%

thereof or schedule time plus 6 months whichever is more if the time of completion of work exceeds 12 months, but if a part of the materials only has been supplied within the aforesaid period, then the contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work, the contractor shall be entitled to such extension of time as may be determined by the Engineer-in-Charge whose decision in this regard shall be final and binding on the contractor.

The contractor shall see that only the required quantities of materials are got issued. Any such material remaining unused and in perfectly good/original condition at the time of completion or determination of the contract shall be returned to the Engineer-in-Charge at the stores from which it was issued or at a place directed by him by a notice in writing. The contractor shall not be entitled for loading, transporting, unloading and stacking of such unused material except for the extra lead, if any involved, beyond the original place of issue.

CLAUSE 10A

Materials to be provided by the Contractor

The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Government.

The contractor shall, at his own expense and without delay, supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Engineer-in-Charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.

The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in- Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.

The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne

by the Contractor.

The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in schedule 'F'.

CLAUSE 10B

Secured Advance on Non-perishable Materials

(i) The contractor, on signing an indenture in the form to be specified by the Engineer-in-Charge, shall be entitled to be paid during the progress of the execution of the work up to 90% of the assessed value of any materials which are in the opinion of the Engineer-in-Charge non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/ deducted from the next payment made under any of the clause or clauses of this contract.

Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer- in-Charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.

Mobilisation Advance

(ii) Mobilization advance not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within one month of the order to commence the work. Such advance shall be in two or more installments to be determined by the Engineer-in- Charge at his sole discretion. The first installment of such advance shall be released by the Engineer-in-charge to the contractor on a request made by the contractor to the Engineer-in-Charge in this behalf. The second and subsequent installments shall be released by the Engineer- in- Charge only after the contractor furnishes a proof of the satisfactory utilization of the earlier installment to the entire satisfaction of the Engineer-in-Charge.

Before any installment of advance is released, the contractor shall execute a Bank Guarantee Bond from Scheduled Bank for the amount equal to 110% of the amount of advance and valid for the contract period. This (Bank Guarantee from Scheduled Bank for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery. Provided always that provision of Clause 10 B (ii) shall be applicable only when so provided in 'Schedule F'.

Plant Machinery & Shuttering Material Advance

(iii) An advance for plant, machinery & shuttering material required for the work and brought to site by the Contractor may be given if requested by the contractor in writing within one month of bringing such plant and machinery to site. Such advance shall be given on such plant and machinery which in the opinion of the Engineer-in-charge will add to the expeditious execution of work and improve the quality of work. The amount of advance shall be restricted to 5% percent of the tender value. In the case of new plant and equipment to be purchased for the work, the advance shall be restricted to 90% of the price of such new plant and equipment paid by the contractor for which the contractor shall produce evidence satisfactory to the Engineer-in-Charge. In the case of second hand and used plants and equipment, the amount of such advance shall be limited to 50% of the depreciated value of plant and equipment as may be decided by the Engineer-in-Charge. The contractor shall, if so required by the Engineer-in-Charge, submit the statement of value of such old plant and equipment duly approved by a Registered Valuer recognized by the Central Board of Direct Taxes under the Income- Tax Act, 1961.

No such advance shall be paid on any plant and equipment of perishable nature and on any plant and equipment of a value less than Rs. 50,000/- Seventy five per cent of such amount of advance shall be paid after the plant & equipment is brought to site and balance twenty five percent on successfully commissioning the same.

Leasing of equipment shall be considered at par with purchase of equipment and shall be covered by tripartite agreement with the following:

1. Leasing company which gives certificate of agreeing to lease equipment to the contractor.
2. Engineer in Charge, and
3. The contractor.

This advance shall further be subject to the condition that such plant and equipment (a) are considered by the Engineer-in-Charge to be necessary for the works; (b) and are in working order and are maintained in working order; (c) hypothecated to the Government as specified by the Engineer-in-Charge before the payment of advance is released. The contractor shall not be permitted to remove from the site such hypothecated plant and equipment without the prior written permission of the Engineer-in- Charge. The contractor shall be responsible for maintaining such plant and equipment in good working order during the entire period of hypothecation failing which such advance shall be entirely recovered in lump sum. For this purpose, steel scaffolding and form work shall be treated as plant and equipment

The contractor shall insure the Plant and Machinery for which mobilization advance is sought and given, for a sum sufficient to provide for their replacement at site. Any amounts not recovered from the insurer will be borne by the contractor.

Interest & Recovery

(iv) The mobilization advance and plant and machinery advance in (ii) & (iii) above bear simple interest at the rate of 10 per cent per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance. Recovery of such sums advanced shall be made by the deduction from the contractors bills commencing after first ten per cent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty per cent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment.

(v) If the circumstances are considered reasonable by the Engineer-in-Charge, the period mentioned in (ii) and (iii) for request by the contractor in writing for grant of mobilization advance and plant and equipment advance may be extended in the discretion of the Engineer-in-Charge.

CLAUSE 10C

Payment on Account of Increase in Prices/Wages due to Statutory Order(s)

If after submission of the tender, the price of any material incorporated in the works (excluding the materials covered under Clause 10CA and not being a material supplied from the Engineer-in-Charge's stores in accordance with Clause 10 thereof) and/or wages of labour increases as a direct result of the coming into force of any fresh law, or statutory rule or order (but not due to any changes of rate in sales tax/VAT, Central/State Excise/Custom Duty) beyond the prices/wages prevailing at the time of the last stipulated date of receipt of tenders including extensions, if any, for the work during contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, then the amount of the contract shall accordingly be varied and provided further that any such increase shall be limited to the price/wages prevailing at the time of updated stipulated date of completion considering effect of extra work (extra time to be calculated on prorata basis only as cost of extra work X stipulated period / tendered amount).

If after submission of the tender, the price of any material incorporated in the works

(excluding the materials covered under Clause 10CA and not being a material supplied from the Engineer-in-Charge's stores in accordance with Clause 10 thereof) and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any changes of rate in sales tax/VAT, Central/State Excise/Custom Duty), Government shall in respect of materials incorporated in the works (excluding the materials covered under Clause 10CA and not being material supplied from the Engineer-in-Charge's stores in accordance with Clause 10 hereof) and/or labour engaged on the execution of the work after the date of coming into force of such law statutory rule or order be entitled to deduct from the dues of the contractor, such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any for the work and the prices of materials and/or wages of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2.

Engineer-in-Charge may call books of account and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages.

The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such materials and/or wages of labour, give notice thereof to the Engineer-in-Charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply.

For this purpose, the labour component of the work executed during period under consideration shall be the percentage as specified in Schedule F, of the value of work done during that period and the increase/decrease in labour shall be considered on the minimum daily wages in rupees of any unskilled adult male mazdoor, fixed under any law, statutory rule or order.

CLAUSE 10CA

Payment due to variation in prices of materials after receipt of tender

If after submission of the tender, the price of materials specified in **Schedule F** increases/ decreases beyond the base price(s) as indicated in Schedule F for the work, then the amount of the contract shall accordingly be varied and provided further that any such variations shall be effected for stipulated period of Contract including the justified period extended under the provisions of Clause 5 of the Contract without any action under Clause 2.

However for work done/during the justified period extended as above, it will be limited to indices prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on pro-rata basis only as cost of extra work x stipulated period/tendered cost).

The increase/decrease in prices of cement, steel reinforcement, structural steel and POL shall be determined by the Price indices issued by the Director General, CPWD. For other items provided in the Schedule 'F', this shall be determined by the All India Wholesale Price Indices of materials as published by Economic Advisor to Government of India, Ministry of Commerce and Industry. Base price for cement, steel reinforcement, structural steel and POL shall be as issued under the authority of Director General CPWD applicable for Delhi including Noida, Gurgaon, Faridabad & Ghaziabad and for other places as issued under the authority of Zonal Chief Engineer, CPWD and base price of other materials issued by concerned Zonal chief Engineer and as indicated in Schedule 'F'. In case, price index of a particular material is not issued by Ministry of Commerce and Industry, then the price index of nearest similar material as indicated in Schedule 'F' shall be followed.

The amount of the contract shall accordingly be varied for all such materials and will be worked out as per the formula given below for individual material:-

Adjustment for component of individual material

$$V = P \times Q \times \frac{CI - CI_0}{CI_0}$$

where,

V = Variation in material cost i.e. increase or decrease in the amount of Rupees to be paid or recovered.

P = Base Price of material as issued under authority of DG, CPWD or concerned Zonal Chief Engineer and as indicated in Schedule "F".

For Projects and Original Works

Q = Quantity of material brought at site for bonafide use in the works since previous bill excluding any such quantity consumed in the deviated quantity of items beyond deviation limit and extra /substituted item, paid/to be paid at rates derived on the basis of market rate under clause 12.2.

For Maintenance Works

Q = Quantity of material brought at site for bonafide use in the works since previous bill including any such quantity consumed in the deviated quantity of items beyond deviation limit paid at agreement rate and extra /substituted item being scheduled items, but excluding non schedule extra /substituted item paid/to be paid at market rate under clause 12.2.

CIo =Price index for cement, steel reinforcement bars structural steel and POL as issued by the DG, CPWD and corresponding to the time of base price of respective material indicated in Schedule 'F'. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and corresponding to the time of base price of respective material indicated in Schedule 'F'.

CI = Price index for cement, steel reinforcement bars, structural steel and POL as issued under the authority of DG, CPWD for period under consideration. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material for period under consideration as published by Economic Advisor to Government of India, Ministry of Industry and Commerce.

Note:

(i) In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/ tendered cost) shall be considered.

Provided always that provisions of the preceding Clause 10 C shall not be applicable in respect of Materials covered in this Clause.

(ii) If during progress of work or at the time of completion of work, it is noticed that any material brought at site is in excess of requirement, then amount of escalation if paid earlier on such excess quantity of material shall be recovered on the basis of cost indices as applied at the time of payment of escalation or as prevailing at the time of effecting recovery, whichever is higher.

(iii) Cement mentioned wherever in this clause includes Cement component used in RMC brought at site from outside approved RMC plants, if any.

(iv) The date wise record of ready mix concrete shall be kept in a register and the cement consumption for the same shall be calculated accordingly.

(v) If built-up steel items are brought at site from workshop, then the variation shall be paid for the structural steel up to the period when the built up item/finished product is brought at site.

CLAUSE 10CC

Payment due to Increase/ Decrease in Prices/Wages (excluding materials covered under clause 10 CA) after Receipt of Tender for works

If the prices of materials (not being materials supplied or services rendered at fixed prices by the department in accordance with clause 10 & 34 thereof) and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that that such compensation for escalation in prices and wages shall be available only for the work done during the stipulated period of the contract including the
Justified period extended under the provisions of clause 5 of the contract without any action under clause 2. However, for the work done during the justified period extended as above, the compensation as detailed below will be limited to prices/wages prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on pro-rata basis only as cost of extra work x stipulated period/tendered cost). No such compensation shall be payable for a work for which the stipulated period of completion is equal to or less than the time as specified in Schedule F. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the following provisions:-

(i) The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any.

(ii) The cost of work on which escalation will be payable shall be reckoned as below :

(a) Gross value of work done up to this quarter: (A)

(b) Gross value of work done up to the last quarter: (B)

(c) Gross value of work done since previous quarter (A-B) (C)

(d) Full assessed value of Secured Advance (excluding materials Covered under Clause 10 CA) fresh paid in this quarter: (D)

(e) Full assessed value of Secured Advance (excluding materials Covered under Clause 10 CA) recovered in this quarter: (E)

(f) Full assessed value of Secured Advance for which escalation Payable in this quarter (D-E): (F)

(g) Advance payment made during this quarter: (G)

(h) Advance payment recovered during this quarter: (H)

(i) Advance payment for which escalation is payable in this Quarter(G-H): (I)

(j) Extra items/deviated quantities of items paid as per Clause 12 Based on prevailing market rates during this quarter: (J)

Then, M = C+F+I-J

N = 0.85 M

(k) Less cost of material supplied by the department as per Clause 10 and recovered during the quarter (K)

(l) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter (L)

Cost of work for which escalation is applicable:

$$W = N - (K + L)$$

(iii) Components for materials (except cement, reinforcement bars, structural steel, POL or other materials covered under clause 10 CA) labour, etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender papers included in Schedule 'F'. The decision of the Engineer-in-Charge in working out such percentage shall be binding on the contractors.

(iv) The compensation for escalation for other materials (excluding cement, reinforcement bars, structural steel, POL or other materials covered under clause 10 CA) shall be worked as per the formula given below:-

(a) **Adjustment for civil component** (except cement, structural steel, reinforcement bars, POL and other materials covered under clause 10CA) / electrical component of construction 'Materials'

$$Vm = W \times \frac{Xm}{100} \times \frac{Ml - Ml_o}{Ml_o}$$

Vm= Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered

W= Cost of Work done worked out as indicated in sub-Para (ii) of Clause 10CC.

Xm= Component of 'materials' (except cement, structural steel, reinforcement bars POL and other materials covered under clause1 0CA) expressed as percent of the total value of work.

Ml= All India Wholesale Price Index for civil component/electrical component* of construction material as worked out on the basis of All India Wholesale Price Index for Individual Commodities/ Group Items for the period under consideration as published by Economic Advisor to Govt. of India, Ministry of Industry & Commerce and applying weightages to the Individual Commodities/Group Items. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/tendered cost, shall be considered.)

Mlo= All India Wholesale Price Index for civil component/electrical component* of construction material as worked out on the basis of All India Wholesale Price Index for Individual Commodities/Group Items valid on the last stipulated date of receipt of tender including extension, if any, as published by the Economic Advisor to Govt. of India, Ministry of Industry & Commerce and applying weightages to the Individual Commodities/Group items

***Note:** relevant component only will be applicable.

(v) The following principles shall be followed while working out the indices mentioned in Para (iv) above.

(a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The dates of preparation of bills as finally entered in the Measurement Book by the Assistant Engineer/ date of submission of bill finally by the contractor to the department in case of computerised measurement books shall be the guiding factor to decide the bills relevant to the quarterly interval. The first such payment shall be made at the end of three months after the month (excluding the month in which tender was accepted) and thereafter at three months' interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.

(b) The index (MI/FI etc.) relevant to any quarter/period for which such compensation is paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period up to date of completion after the quarter covered by the last such installment of payment, is less than three months, the index Ml and Fl shall be the average of the indices for the months falling within that period.

(vi) The **compensation for escalation for labour** shall be worked out as per the formula given Below:

$$VL = W \times \frac{Y}{100} \times \frac{LI - LI_0}{LI_0}$$

VL : Variation in labour cost i.e. amount of increase or decrease in rupees to be paid or recovered.

W : Value of work done, worked out as indicated in sub-Para (ii) above.

Y : Component of labour expressed as a percentage of the total value of the work.

LI : Minimum wage in rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as applicable on the last date of the quarter previous to the one under consideration. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the minimum wage prevailing on the last date of quarter previous to the quarter pertaining to updated stipulated date of Completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/tendered cost, shall be considered.)

Llo: Minimum daily wage in rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as on the last stipulated date of receipt of tender including extension, if any.

(vii) The following principles will be followed while working out the compensation as per sub-Para (vi) above.

(a) The minimum wage of an unskilled male mazdoor mentioned in sub-Para(vi) above shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning.

(b) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters;

(c) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled adult male mazdoor alone shall form the basis for working out the escalation compensation payable on the labour component.

(viii) In the event the price of materials and/or wages of labour required for execution of the work decrease/s, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein before stated under this Clause 10CC shall mutatis mutandis apply, provided that:

(a) no such adjustment for the decrease in the price of materials and/or wages of labour aforementioned would be made in case of contracts in which the stipulated period of completion of the work is equal to or less than the time as specified in Schedule 'F'.

(b) The Engineer-in-Charge shall otherwise be entitled to lay down the procedure by which the provision of this sub-clause shall be implemented from time to time and the decision of the Engineer-in-Charge in this behalf shall be final and binding on the contractor.

(ix) Provided always that:-

(a) Where provisions of clause 10CC are applicable, provisions of clause 10C will not be applicable but provisions of clause 10CA will be applicable.

(b) Where provisions of clause 10CC are not applicable, provisions of clause 10C and 10CA will become applicable.

Note: Updated stipulated date of completion (period of completion plus extra time for extra work for compensation under clause 10C, 10CA and 10CC, the factor of 1.25 taken into account for calculating the extra time under clause 12.1 for extra time shall not be considered while calculating the updated stipulated date of completion for this purpose in clause 10C, clause 10CA, and clause 10CC.

CLAUSE 10D

Dismantled Material Govt. Property

The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as Government's property and such materials shall be disposed off to the best advantage of Government according to the instructions in writing issued by the Engineer-in-Charge.

CLAUSE 11

Work to be Executed in Accordance with Specifications, Drawings, Orders etc.

The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department specified in Schedule 'F' or in any Bureau of Indian Standard or any other,

published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract.

The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

CLAUSE 12:

Deviations/ Variations Extent and Pricing

The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration shall not exceed 1.25 times of Tendered amount

12.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows :

(i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus

(ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.

12.2 **A.** For Project and original works:

Deviation, Extra Items and Pricing

In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the engineer-in-charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration:

In the case of Extra Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/ below quoted contract amount.

Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.

A. For Project and original works:

Deviation, Substituted

In the case of substituted items (items that are taken up with partial substitution or in

Items, Pricing

lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following Para

(a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

(b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration:

In the case of Substitute Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/ below quoted contract amount. Payment of Substitute in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.

A. For Project and original works:

Deviation, Deviated Quantities, Pricing

In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration

In the case of contract items, which exceed the limits laid down in schedule F, the contractor shall be paid rates specified in the schedule of quantities

The prescribed time limits for finalising rates for Extra Item(s), Substitute Item(s) and Deviated Quantities of contract items are as under:

(i) If the Tendered value of work is up to Rs. 45 lac :	30 days
(ii) If the Tendered value of work is more than Rs 45 lac and up to Rs. 2.5 Crore	45 days.
(iii) If the Tendered value of work exceeds Rs. 2.5 Crore :	60 days.

12.3 **A.** For Project and original works:

The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration:

In case of decrease in the rates prevailing in the market of items for the work in excess of the limits laid down in Schedule F, the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

12.4 The contractor shall send to the Engineer-in-Charge once every three months, an up to date account giving complete details of all claims for additional payments to which the contractor may consider himself entitled and of all additional work ordered by the Engineer-in-Charge which he has executed during the preceding quarter failing which the contractor shall be deemed to have waived his right. However, the Superintending Engineer may authorise consideration of such claims on merits.

12.5 For the purpose of operation of Schedule "F", the following works shall be treated as works relating to foundation unless & otherwise defined in the contract:

(i)	For Buildings :	All works up to 1.2 meters above ground level or up to floor 1 level whichever is lower.
(ii)	For abutments, piers and well staining	All works up to 1.2 m above the bed level.
(iii)	For retaining walls, wing walls, compound walls, chimneys, over head reservoirs/ tanks and other elevated structures :	All works up to 1.2 meters above the ground level.
(iii)	For reservoirs/tanks (other than overhead reservoirs /tanks) :	All works up to 1.2 meters above the ground level.
(v)	For basement:	All works up to 1.2 m above ground level or up to floor 1 level whichever is lower.
(vi)	For Roads :	All items of excavation and filling including treatment of sub base.

12.6 Any operation incidental to or necessarily has to be in contemplation of tenderer while filing. tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.

Foreclosure of contract due to Abandonment or Reduction in Scope of Work

CLAUSE 13

If at any time after acceptance of the tender, Engineer-in-charge shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Engineer-in-Charge shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view

of the foreclosure

(i) Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.

(ii) Government shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however Government shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by Government, cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.

(iii) If any materials supplied by Government are rendered surplus, the same except normal wastage shall be returned by the contractor to Government at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to Government stores, if so required by Government, shall be paid.

(iv) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T& Pare not transported to either of the said places, no cost of transportation shall be payable.

(v) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer- in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Government as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Government from the contractor under the terms of the contract.

A compensation for such eventuality, on account of damages etc. shall be payable @ 0.5% of cost of work remaining incomplete on date of closure i.e. total stipulated cost of the work less the cost of work actually executed under the contract shall be payable.

Carrying out part work at risk & cost of contractor

Clause 14

If contractor:

(i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or

(ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or
Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

The Engineer- in-Charge without invoking action under clause 3 may, without prejudice

to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to:

(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or

(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by Government because of action under this clause shall not exceed 10% of the tendered value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by Government in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Government as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Government in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

Suspension of Work

CLAUSE 15

(i) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:

(a) on account of any default on the part of the contractor or;

(b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or

(c) For safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in- Charge.

(ii) If the suspension is ordered for reasons (b) and (c) in sub-Para (i) above:

(a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;

(b) If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in- Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within fifteen days of the expiry of the period of 30 days.

(iii) If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reason (a) in sub-Para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer-in-Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by Government or where it affects whole of the works, as an abandonment of the works by Government, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by Government, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within 30 days of the expiry of the period of 3 months.

Compensation in case of Delay of Supply of Material by Govt.

CLAUSE 15 A

The contractor shall not be entitled to claim any compensation from Government for the loss suffered by him on account of delay by Government in the supply of materials in schedule 'A' where such delay is covered by the difficulties relating to the supply of wagons, force majeure or any reasonable cause beyond the control of the Government.

This clause 15 A will not be applicable for works where no material is stipulated.

CLAUSE 16

Action in case Work not done as per Specifications

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-lncharge, his authorized subordinates in charge of the work and all the superior officers,

officer of the Quality Assurance Unit of the Department or any organization engaged by the Department for Quality Assurance and of the Chief Technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or his subordinate officers or the officers of the organization engaged by the Department for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs. 10 Lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in- Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority specified in schedule 'F' may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

CLAUSE 17

Contractor Liable for Damages, defects during defect liability period

If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer-in-Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of road work, if in the opinion of the Engineer-in-Charge, half of the security deposit is sufficient, to meet all liabilities of the contractor under this contract, half of the security deposit will be refundable after six months and the remaining half after twelve months

of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later.

In case of Maintenance and Operation works of E&M services, the security deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract whichever is earlier.

CLAUSE 18

Contractor to Supply Tools & Plants etc

The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-Charge's stores), machinery, tools & plants as specified in schedule F. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.

CLAUSE 18A

Recovery of Compensation paid to Workmen

In every case in which by virtue of the provisions sub-section (1) of Section 12, of the Workmen's Compensation Act, 1923, Government is obliged to pay compensation to a workman employed by the contractor, in execution of the works, Government will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the Government under sub-section (2) of Section 12, of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise. Government shall not be bound to contest any claim made against it under sub-section (1) of Section 12, of the said Act, except on the written request of the contractor and upon his giving to Government full security for all costs for which Government might become liable in consequence of contesting such claim.

CLAUSE 18B

Ensuring Payment and Amenities to Workers if Contractor fails

ln every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, Government is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19HorundertheC.P.W.D. Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by C.P.W.D. Contractors, Government will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the Government under sub-section(2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise Government shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written

request of the contractor and upon his giving to the Government full security for all costs for which Government might become liable in contesting such claim.

CLAUSE 19

Labour Laws to be complied by the Contractor

The contractor shall obtain a valid license under the Contract Labour (R&A) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.

The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.

Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.

CLAUSE19A

No labour below the age of fourteen years shall be employed on the work.

CLAUSE 19B

Payment of Wages

Payment of wages:

(i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.

(ii) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.

(iii) In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Central Public Works Department contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorizedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission5 of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.

(iv) (a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.

(b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labourers directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labourers and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.

In the case of Union Territory of Delhi, however, as the all inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/ 43884-91, dated 31 -12-1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise.

(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.

(vi) The contractor shall indemnify and keep indemnified Government against payments to be made under and for the observance of the laws aforesaid and the C.P.W.D. Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.

(vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

(viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.

(ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.

CLAUSE 19C

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D./HWP TALCHER/HWB/DAE Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.200/- for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

CLAUSE 19D

The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge, a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:-

(1) the number of labourers employed by him on the work,

(2) their working yours,

(3) the wages paid to them,

(4) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and

(5) The number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them.

Failing which the contractor shall be liable to pay to Government, a sum not exceeding Rs.200/- for each default or materially incorrect statement. The decision of the Divisional Officer shall be final in deducting from any bill due to the contractor, the amount levied as fine and be binding on the contractor.

CLAUSE 19E

In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the Central Public Works Department and its contractors.

CLAUSE 19F

Leave and pay during leave shall be regulated as follows:-

1. Leave:
   (i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day,
   (ii) in the case of miscarriage - up to 3 weeks from the date of miscarriage.
2. Pay :
   (i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.
   (ii) in the case of miscarriage - leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.
3. Conditions for the grant of Maternity Leave:
   No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave.

4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in appendix -I and II, and the same shall be kept at the place of work.

CLAUSE 19G

In the event of the contractor(s) committing a default or breach of any of the provisions of the Central Public Works Department, Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and' Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum not exceeding Rs.200/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.

Should it appear to the Engineer-in-Charge that the contractor(s) is/are not properly observing and complying with the provisions of the C.P.W.D. Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R& A) Central Rules 1971, for the protection of health and sanitary arrangements for work-people employed by the contractor(s) (hereinafter referred as "the said Rules") the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said **Rules be**

complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor(s). The contractor(s) shall erect, make and maintain at his/their own expense and to approved standards all necessary huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodeled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).

CLAUSE 19H

The contractor(s) shall at his/their own cost provide his/their labour with a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.

(i) (a) The minimum height of each hut at the eaves level shall be 2.10m (7 ft.) and the floor area to be provided will be at the rate of 2.7 sq.m. (30 sq.ft.) for each member of the worker's family staying with the labourer.

(b) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6'x5') adjacent to the hut for each family.

(c) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women.

(d) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.

(ii) (a) All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge. In case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutcha but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with thatch or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation, the roofs remain water-tight.

(b) The contractor(s) shall provide each hut with proper ventilation.

(c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.

(d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-in-Charge. Back to back construction will be allowed.

(iii) **Water Supply** - The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped

water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor(s) shall also at his/ their own cost make arrangements for laying pipe lines for water supply to his/ their labour camp from the existing mains wherever available, and shall pay all fees and charges therefore.

(iv) The site selected for the camp shall be high ground, removed from jungle.

(v) **Disposal of Excreta** - The contractor(s) shall make necessary arrangements for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the contractor(s) shall make arrangements for the removal of the excreta through the Municipal Committee/authority and inform it about the number of labourers employed so that arrangements may be made by such Committee/authority for the removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipality/authority. The contractor shall provide one sweeper for every eight seats in case of dry system.

(vi) **Drainage** - The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.

(vii) The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.

(viii) **Sanitation** - The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.

CLAUSE 19I

The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE/JE will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service centre, to apprise the residents about the same.

CLAUSE 19J

It shall be the responsibility of the contractor to see that the building under construction is not occupied by any body unauthorizedly during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy up to 5% of tendered value of work may be imposed by the Engineer In Charge whose decision shall be final both with regard to the justification and quantum and be binding on the contractor.

However, the Engineer In Charge, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.

CLAUSE 19K

Employment of skilled/semi skilled workers

The contractor shall, at all stages of work, deploy skilled/semi skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed

and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, it's scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer in- Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate of Rs. 100 per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding.

Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores.

CLAUSE 19L

Contribution of EPF and ESI

The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis

CLAUSE 20

Minimum Wages Act to be Complied with

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

CLAUSE 21

Work not to be sublet. Action in case of insolvency

The contract shall not be assigned or sublet without the written approval of the Engineer-in -Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer
or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf of the President of India shall have power to adopt the course specified in Clause 3 hereof in the interest of Government and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.

CLAUSE 22

All sums payable by way of **compensation** under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government **without reference to the actual loss or damage** sustained and whether or not any damage shall have been sustained.

CLAUSE 23

Changes in firm's Constitution to be intimated

Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in

contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.

CLAUSE 24

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

CLAUSE 25

Settlement of Disputes & Arbitration

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

(i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable, he shall promptly within 15 days request the General Manager/Officer On Special Duty, HWP TALCHER in writing for written instruction or decision. Thereupon, the General Manager/Officer On Special Duty, HWP TALCHER shall give his written instructions or decision within a period of one month from the receipt of the contractor's letter.

If the General Manager/Officer On Special Duty, HWP TALCHER fails to give his instructions or decision in writing within the aforesaid period or if the contractor is dissatisfied with the instructions or decision of the General Manager/Officer On Special Duty, HWP TALCHER the contractor may, within 15 days of the receipt of General Manager/Officer On Special Duty's decision, appeal to the Chief Executive, HWB who shall afford an opportunity to the contractor to be heard, if the latter so desires, and to offer evidence in support of his appeal. The Chief Executive, HWB shall give his decision within 30 days of receipt of contractor's appeal. If the contractor is dissatisfied with the decision of the Chief Executive, HWB, the contractor may within 30 days from the receipt of the Chief Executive's decision, give notice to the Chief Executive, HWB for appointment of arbitrator on prescribed proforma as per Appendix XV, failing which the said decision shall be final binding and conclusive and not referable to adjudication by the arbitrator.

It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking arbitration.

(ii) Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above, disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Chief Executive, HWB. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the rejection by the General Manager/Officer On Special Duty HWP TALCHER/ Chief Executive, HWB of the appeal.

It is also a term of this contract that no person, other than a person appointed by Chief Executive, HWB, as aforesaid, should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.

It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claims in writing as aforesaid within 120 days of receiving the intimation from the Engineer-in-charge that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Government shall be discharged and released of all liabilities under the contract in respect of these claims.

The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is also a term of this contract that the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/-, the arbitrator shall give reasons for the award.

It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid equally by both the parties.

It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

CLAUSE 26

Contractor to indemnify Govt. against Patent Rights

The contractor shall fully indemnify and keep indemnified the President of India against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against Government in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the President of India if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.

CLAUSE 27

Lump sum Provisions in Tender

When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work

involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-Charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.

CLAUSE 28

Action where no Specifications are specified

In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per District Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge

CLAUSE 29

Withholding and lien in respect of sum due from contractor

(i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer in- Charge or the Government shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the Government or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim. It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or Government will be kept withheld or retained as such by the Engineer-in-Charge or Government till the claim arising out of or under the contract is determined by the arbitrator(if the contract is governed by the arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the Government shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.

(ii) Government shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for Government to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment

shall be duly paid by Government to the contractor, without any interest thereon whatsoever.

Provided that the Government shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the General Manager/Officer On Special Duty, HWP TALCHER/Engineer In Charge on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the General Manager/Officer On Special Duty, HWP TALCHER/Engineer In Charge.

CLAUSE 29A

Lien in respect of claims in other Contracts

Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the Government or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or Government or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer- in-Charge or the Government or with such other person or persons.

It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the Government will be kept withheld or retained as such by the Engineer-in-Charge or the Government or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

CLAUSE 30

Employment of coal mining or controlled area labour not permissible

The contractor shall not employ coal mining or controlled area labour falling under any category whatsoever on or in connection with the work or recruit labour from area within a radius of 32 km (20 miles) of the controlled area. Subject as above the contractor shall employ imported labour only i.e., deposit imported labour or labour imported by contractors from area, from which import is permitted.
Where ceiling price for imported labour has been fixed by State or Regional Labour Committees not more than that ceiling price shall be paid to the labour by the contractor.

The contractor shall immediately remove any labourer who may be pointed out by the Engineer-in-Charge as being a coal mining or controlled area labourer. Failure to do so shall render the contractor liable to pay to Government a sum calculated at the rate of Rs.10/- per day per labourer. The certificate of the Engineer-in-Charge about the number of coal mining or controlled area labourer and the number of days for which they worked shall be final and binding upon all parties to this contract.

It is declared and agreed between the parties that the aforesaid stipulation in this clause is one in which the public are interested within the meaning of the exception in Section 74 of Indian Contract Act, 1872.

Explanation:- Controlled Area means the following areas:

Districts of Dhanbad, Hazaribagh, Jamtara - a Sub-Division under Santhal Pargana Commissionery, Districts of Bankuara, Birbhum, Burdwan, District of Bilaspur.

Any other area which may be declared a Controlled Area by or with the approval of the Central Government.

CLAUSE 31

Unfiltered water supply

The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions.

(i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.

(ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in- Charge, unsatisfactory.

CLAUSE 31A

Departmental water supply, if available

Water if available may be supplied to the contractor by the department subject to the following conditions:-

(i) The water charges @ 1 % shall be recovered on gross amount of the work done.

(ii) The contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply.

(iii) The Department do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the contractor(s) to make alternative arrangements for water at his/ their own cost in the event of any temporary break down in the Government water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.

CLAUSE 32

Alternate water arrangements

(i) Where there is no piped water supply arrangement and the water is taken by the contractor from the wells or hand pump constructed by the Government, no charge shall be recovered from the contractor on that account. The contractor shall, however, draw water at such hours of the day that it does not interfere with the normal use for which the hand pumps and wells are intended. He will also be responsible for all damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from him. The Engineer-in-Charge shall be the final authority to determine the cost recoverable from the contractor on this account and his decision shall be binding on the contractor.

(ii) The contractor shall be allowed to construct temporary wells in Government land for taking water for construction purposes only after he has got permission of the Engineer-in- Charge in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.

CLAUSE 33

Return of Surplus materials

Notwithstanding anything contained to the contrary in this contract, where any materials for the execution of the contract are procured with the assistance of Government either by issue from Government stocks or purchase made under orders or permits or licences issued by Government, the contractor shall hold the said materials economically and solely for the purpose of the contract and not dispose of them without the written permission of the Government and return, if required by the Engineer-in-Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such price as the Engineer-in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however shall not exceed the amount

charged to him excluding the element of storage charges. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to action for contravention of the terms of the licence or permit and/or for criminal breach of trust, be liable to Government for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.

CLAUSE 34

Hire of Plant & Machinery

(i) The contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work except for the Plant & Machinery listed in Schedule 'C' and stipulated for issue to the contractor. If the contractor requires any item of T&P on hire from the T&P available with the Government over and above the T&P stipulated for issue, the Government will, if such item is available, hire it to the contractor at rates to be agreed upon between him and the Engineer-in-Charge. In such a case, all the conditions hereunder for issue of T&P shall also be applicable to such T&P as is agreed to be issued.

(ii) Plant and Machinery when supplied on hire charges shown in Schedule 'C' shall be made over and taken back at the departmental equipment yard/shed shown in Schedule 'C' and the contractor shall bear the cost of carriage from the place of issue to the site of work and back. The contractor shall be responsible to return the plant and machinery with condition in which it was handed over to him, and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation and otherwise during transit including damage to or loss of plant and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Divisional Engineer shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.

(iii) The plant and machinery as stipulated above will be issued as and when available and if required by the contractor. The contractor shall arrange his programme of work according to the availability of the plant and machinery and no claim, whatsoever, will be entertained from him for any delay in supply by the Department.

(iv) The hire charges shall be recovered at the prescribed rates from and inclusive of the date the plant and machinery made over up to and inclusive of the date of the return in good order even though the same may not have been working for any cause except major breakdown due to no fault of the contractor or faulty use requiring more than three working days continuously (excluding intervening holidays and Sundays) for bringing the plant in order. The contractor shall immediately intimate in writing to the Engineer-in- Charge when any plant or machinery gets out of order requiring major repairs as aforesaid. The Engineer-in-Charge shall record the date and time of receipt of such intimation in the log sheet of the plant or machinery. Based on this if the breakdown before lunch period or major breakdown will be computed considering half a day's breakdown on the day of complaint. If the breakdown occurs in the post lunch period of major breakdown will be computed starting from the next working day. In case of any dispute under this clause, the decision of the General Manager/Officer On Special Duty/ Engineer-in-Charge shall be final and binding on the contractor.

(v) The hire charges shown above are for each day of 8 hours (inclusive of the one hour lunch break) or part thereof.

(vi) Hire charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, firewood, kerosene oil etc. for running the plant and machinery and also the full time chowkidar for guarding the plant and machinery against any loss or damage shall

be arranged by the contractor who shall be fully responsible for the safeguard and security of plant and machinery. The contractor shall on or before the supply of plant and machinery sign an agreement indemnifying the Department against any loss or damage caused to the plant and machinery either during transit or at site of work.

(vii) Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one hour lunch break. In case of an urgent work however, the Engineer-in-Charge may, at his discretion, allow the plant and machinery to be worked for more than normal period of 8 hours a day. In that case, the hourly hire charges for overtime to be borne by the contractor shall be 50% more than the normal proportionate hourly charges (1/8th of the daily charges) subject to a minimum of half day's normal charges on any particular day. For working out hire charges for over time, a period of half an hour and above will be charged as one hour and a period of less than half an hour will be ignored.

(viii) The contractor shall release the plant and machinery every seventh day for periodical servicing and/or wash out which may take about three to four hours or more. Hire charges for full day shall be recovered from the contractor for the day of servicing/ wash out irrespective of the period employed in servicing.

(ix) The plant and machinery once issued to the contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer-in-Charge, the work or a portion of work for which the same was issued is completed.

(x) Log Book for recording the hours of daily work for each of the plant and machinery supplied to the contractor will be maintained by the Department and will be countersigned by the contractor or his authorized agent daily. In case the contractor contests the correctness of the entries and/or fails to sign the Log Book, the decision of the Engineer-in-Charge shall be final and binding on him. Hire charges will be calculated according to the entries in the Log Book and will be binding on the contractor. Recovery on account of hire charges for road rollers shall be made for the minimum number of days worked out on the assumption that a roller can consolidate per day and maximum quantity of materials or area surfacing as noted against each in the annexed statement (see attached annexure).

(xi) In the case of concrete mixers, the contractors shall arrange to get the hopper cleaned and the drum washed at the close of the work each day or each occasion.

(a) In case rollers for consolidation are employed by the contractor himself, log book for such rollers shall be maintained in the same manner as is done in case of departmental rollers, maximum quantity of any items to be consolidated for each roller-day shall also be same as in Annexure to Clause 34(x). For less use of rollers, recovery for the less roller days shall be made at the stipulated issue rate.

(xii) The contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation or otherwise or during transit including damage to or loss of parts, and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Divisional Engineer shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.

(xiii) The contractor will be exempted from levy of any hire charges for the number of days he is called upon in writing by the Engineer-in-Charge to suspend execution of the work, provided Government plant and machinery in question have, in fact, remained idle with the contractor because of the suspension

(xiv) In the event of the contractor not requiring any item of plant and machinery issued

by Government though not stipulated for issue in Schedule 'C' any time after taking delivery at the place of issue, he may return it after two days written notice or at any time without notice if he agrees to pay hire charges for two additional days without, in any way, affecting the right of the Engineer-in-Charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party.

CLAUSE 35

Condition relating to use of asphaltic materials

(i) The contractor undertakes to make arrangement for the supervision of the work by the firm supplying the tar or bitumen used.

(ii) The contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Engineer-in-Charge. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution for reasons other than authorized changes of specifications and abandonment of portion of work, a corresponding deduction equivalent to the cost of unused materials as determined by the Engineer-in-Charge shall be made and the material return to the contractors. Although the materials are hypothecated to Government, the contractor undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Engineer-in- Charge in writing.

(iii) The contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating to asphaltic work shall be refunded after the expiry of this period.

CLAUSE 36

Employment of Technical Staff and employees

Contractors Superintendence, Supervision, Technical Staff & Employees

(i) The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s) The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall

be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in- Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/ checked measurements/ test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified in Schedule 'F' and the decision of the Engineer-In-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved

substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every on account bill final bill and shall produce evidence if at any time so required by the Engineer-in-Charge

(ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.

The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.

CLAUSE 37

Levy/Taxes payable by Contractor

(i) GST, Building and other Construction Workers Welfare Cess or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect except as provided under Clause 38.

(ii) The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities.

(iii) If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Government of India and does not any time become payable by the contractor to the State Government, Local authorities in respect of any material used by the contractor in the works, then in such a case, it shall be lawful to the Government

of India and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.

CLAUSE 38

Conditions for Reimbursement of levy/taxes if levied after receipt of tenders

(i) All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e.increase or decrease shall be made for any variation in the rate of GST, Building and other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.

However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease. Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes/levies/cess. Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 in Schedule F.

(ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and/or the Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.

(iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, give a written notice thereof to the Engineer-in- charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

CLAUSE 39

Termination of Contract on death of contractor

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Divisional Officer on behalf of the President of India shall have the option of terminating the contract without compensation to the contractor.

CLAUSE 40

If relative working in DAE then the contractor not allowed to tender

The contractor shall not be permitted to tender for works in the HWP TALCHER/HWB (DAE unit responsible for award and execution of contracts) in which his near relative is posted as AO/AAO or as an officer in any capacity between the grades of the Scientific / Technical Officer and Scientific Assistant or equivalent posts (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 Gazetted Officer in the HWP TALCHER/HWB or in the Department of Atomic Energy or in the concerned Ministry. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department. If however the contractor is registered in any other department, he shall be debarred from tendering in HWP TALCHER/HWB/DAE for any breach of this condition.

NOTE: By the term "near relatives" is meant wife, husband, parents and grand parents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws

CLAUSE 41

No Gazetted Engineer to work as Contractor within one year of retirement

No engineer of Gazetted rank or other Gazetted officer employed in engineering or administrative duties in an engineering department of the Government of India shall work as a contractor or employee of a contractor for a period of one year after his retirement from government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the

permission of Government of India as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.

CLAUSE 42

Return of material & recovery for excess material issued.

(i) After completion of the work and also at any intermediate stage in the event of non reconciliation of materials issued, consumed and in balance - (see Clause 10), theoretical quantity of materials issued by the Government for use in the work shall be calculated on the basis and method given hereunder:-

(a) Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above mentioned schedule/statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer-in-Charge.

(b) Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorized by Engineer-in-Charge, including authorized lappages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter wise, section wise and category wise separately.

(c) Theoretical quantity of G.I. &C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall betaken as quantity actually required and measured plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be 10%), such determination & comparison being made diameter wise & category wise.

(d) For any other material as per actual requirements.

(ii) Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F'. The difference in the net quantities of material actually issued to the contractor and the theoretical quantities including such authorized variation, if not returned by the contractor or if not fully reconciled to the satisfaction of the Engineer-in-Charge within fifteen days of the issue of written notice by the Engineer-in-charge to this effect shall be recovered at the rates specified in Schedule 'F', without prejudice to the provision of the relevant conditions regarding return of materials governing the contract. Decision of Engineer-in-Charge in regard to theoretical quantities of materials, which should have been actually used as per the Annexure of the standard schedule of rates and recovery at rates specified in Schedule 'F', shall be final & binding on the contractor.

For non scheduled items, the decision of the General Manager/Officer On Special Duty regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor.

(iii) The said action under this clause is without prejudice to the right of the Government to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.

CLAUSE 43

Compensation during warlike situations

The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or

destroyed in consequence of hostilities or warlike operation, the contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer-in-Charge, such payments being in addition to compensation up to the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the General Manager/Officer On Special Duty/Engineer In Charge concerned. The contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.

Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A. R. P. Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work.

In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Divisional Officer.

CLAUSE 44

Apprentices Act provisions to be complied with

The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Chief General Manager/Officer On Special Duty/Engineer In Charge may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

CLAUSE 45

Release of Security deposit after labour clearance

Release of Security Deposit of the work shall not be refunded till the contractor produces a clearance deposit after labour certificate from the Labour Officer. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.

AERB/SG/IS-1

SAFETY GUIDE

Government of India

Atomic Energy Regulatory Board

Bombay - 400 095

August 1991

C O N T E N T S

Page

1. Introduction
2. General Safety Provisions
3. Traffic
4. Safe Means of Access
5. Excavation, Trenching and Earth Removal
6. Concreting
7. Demolition
8. Personal Protective Equipment
9. Painting
10. Lifting Machines & Tackles
11. Welding and Gas cutting
12. Grinding
13. Electricity
14. House keeping
15. Fire Safety
16. Safety Work Permit
17. Work in Radiation Area
18. Work in and around Water Bodies
19. Medical Facilities
20. Safety Officer and Safety Coordination
21. Reporting of Accident
22. Public Protection
23. Other Statutory Provisions

Annexure: Guidelines and General Procedures

For supply and Use of Electricity at Site

Forms

1 Form for completion certificate

2 Application for Service Connection by Contractor

F O R E W O R D

Generally the number of accidents are more during construction phase of a Project. These accidents involve mostly contractor workers. A need for a single document in the form of a guide or a manual defining the work situations during construction phase and the required safety precautions / procedures / equipment to be taken/followed/used was recognised by DAE SRC. In its meeting No. 259 held on 5th February, 1986, a Committee with Shri K.S. Somayaji as the Convenor was constituted to look into the type of accidents occurring during construction phase and also to evolve a guide to contain safety precautions that are required to be taken in the construction activities.

This Sub-Committee's report was discussed by DAE SRC in its meeting No.271 held on 18th June 1986 but unfortunately could not be finalised. On January 3, 1990, this document was circulated to all the units of DAE and also to members of SARCOP for their comments. Several units and members of SARCOP have given their comments and these comments were further reviewed by another Group in consultation with Shri K.S.Somayaji. This Group eventually finalised the guide in its present form taking note of the comments from all the agencies.

In this guide certain qualitative terms like adequate, minimum, near, suitable, good quality, sufficient, etc. have been used, since it is not possible to quantify them for the varied nature of jobs that are being handled at the construction sites. It is recommended that the Safety Engineer and the concerned Engineer In-Charge may be consulted for their better judgment on meeting the qualitative requirements.

This guide was finally discussed at SARCOP Meeting No. 88 held on 22nd August, 1990 and was approved. Every unit of DAE and its undertakings are required to use the document as a guide to be followed in the award of works contracts to the contractors for compliance with the safety precautions laid down. It is incumbent that this guide be included as part of the tender document for effective compliance.

SARCOP places on record its appreciation for the interest shown by various agencies and individuals in scrutinising the draft and sending their comments. SARCOP also places on record its appreciation of the time and effort put in by the Committee and the Group to bring this guide in its final form.

(S.D. Soman)

Chairman, AERB

Bombay

August 1991

SAFETY GUIDE

1. INTRODUCTION

Many of the works of Department of Atomic Energy at its various sites are executed by the contractors. During these works, contractors personnel are likely to be exposed to different types of hazards. Similarly, unsafe acts of contractors personnel may generate hazards for Departmental staff and/ or workmen of other contractors working at the site. Such unsafe acts may also pose danger to the existing installations and even to members of public. This guide is prepared to facilitate safe working during execution of contract works. It is hoped that units of DAE may issue this guide as a part of contract documents while awarding contracts.

2. GENERAL SAFETY PROVISIONS

2.1 The Contractor shall take all safety precautions during the execution of awarded work and shall maintain and leave the site safe at all times. At the end of each working day and at all times when the work is temporarily suspended, he shall ensure that all materials, equipment and facilities will not, cause damage to existing property, personal injury or interfere with the other works of the Project or Station. The Contractor shall comply with all applicable provisions of the safety regulations, clean up programme and other measures that are in force at the site.

2.2 The Contractor shall provide and maintain all lights, guards, fencing, warning signs, caution boards and other safety measures and provide for vigilance as and where necessary or as required by the Engineer-in-charge or by any duly constituted authority for the protection of workers or for the safety of others. The caution boards shall also have appropriate symbols.

2.3 Adequate lighting facilities such as flood lights, hand lights and area lighting shall be provided by the Contractor at the site of work, storage area of materials and equipment and temporary access roads within his working area. The Contractor shall obtain written approval of the Engineer-in-charge to the lighting scheme and place of tapping prior to its installation.

2.4 The Contractor shall plan his operations so as to avoid interference with the other Departmental works, other Contractors or sub-Contractors at the site. In case of any interference, necessary coordination shall be sought by the contractor from the Department for safe and smooth working.

2.5 The Contractor and his sub-contractor, if any shall comply with the instructions given by the Safety Engineer or his authorised nominee regarding safety precautions, protective measures, house keeping requirements, etc. The Safety Engineer with due intimation to Engineer-In-Charge shall have the right to stop the work of the Contractor, if in his opinion proceeding with the work will lead to an unsafe and angerous condition. Engineer-In-Charge shall get the unsafe condition removed or provide protective equipment at the contractors cost. The contractor can employ his own Safety Engineer or nominate one of his officers for liaison with Departmental Safety Engineer for ensuring compliance of all safety rules. Contractor shall ensure that all his workmen are aware about the nature of risk involved in their work and have adequate training for carrying out their work safely.

2.6 The contractor shall be held responsible for non-compliance of any of the safety measures and delays, implications, injuries, fatalities and compensation arising out of such situations or incidents.

3. TRAFFIC

3.1 The Contractor shall conduct his operations so as to interfere as little as possible with the use of existing roads at or near locations where the work is being performed.

3.2 When interference to traffic is inevitable, notice of such interference shall be given to the Engineer-in-charge well in advance (at least 48 hours) with the details of start of the work and time required, storage of materials, and details of the proposed methods of providing the required facilities for safe and continuous use of roads and obtain his clearance.

3.3 The Contractor shall, at his own expense, make such approved temporary provisions as are required to maintain at least one lane of traffic by bridging the excavation, providing ramps over surface obstructions or providing suitable temporary bye-pass around the obstructions. The Contractor shall exercise full care to ensure that no damage is caused by him or his workmen, during the operation, to the existing water supply, sewerages, power or telecommunication lines or any other services or works. The Contractor shall be required to provide and erect before construction, substantial barricades, guard-rails, and warning signs. He shall furnish, place and maintain adequate warning lights,signals, etc., as required by Engineer-in-charge.

4. SAFE MEANS OF ACCESS

4.1 Adequate and safe means of access and exit shall be provided for all work places, at all elevations. Using of scaffolding members (avoiding a ladder)for approach to high elevations shall not be permitted.

4.2 Suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short duration work as can be done safely from ladders. Ladder shall be of rigid construction having sufficient strength for the intended loads and made either of good quality wood or metal and all ladders shall be maintained well for safe working condition. An extra mazdoor shall be engaged for holding the ladder if ladder is not securely fixed. If the ladder is used for carrying materials as well, suitable foot holds and hand holds shall be provided on the ladder. The ladder shall be given an inclination not steeper than 1 in 4 (1 horizontal and 4 vertical). Ladders shall not be used for climbing carrying materials in hands. While climbing both the hands shall be free.

4.3 Scaffolding or staging more than 3.5 m above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a standard guard rail properly attached, bolted, braced or otherwise secured at least 1.0 m high above the floor or platform of such scaffolding or staging. The guard rail shall extend along the entire exposed length of the scaffolding with only such opening as may be necessary for the delivery of materials. Standard railing shall have posts not more than 2 m apart and an intermediate rail halfway between the floor or platform of the scaffolding and the top rail. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure. Scaffolding and ladder shall conform to relevant IS specification (IS 3696-1966). Timber/Bamboo scaffolding shall not be used.

4.4 Working platforms of scaffolds shall have toe boards at least 15 cm in height to prevent materials from falling down.

A sketch of the scaffolding proposed to be used shall be prepared and approval of the Engineer-in-charge obtained prior to start of erection of scaffolding. All scaffolds shall be examined by Engineer-In-Charge before use.

4.6 Working platform, gangways and stairways shall be so constructed that they shall not sag unduly or unequally and if the height of the platform or gangway or stairway is more than 3.5 m above ground level or floor level, they shall be closely boarded, shall have adequate width for easy movement of persons and materials and shall be suitably guarded as described in 3.3 above.

4.7 The planks used for working platform shall not project beyond the end supports to a distance exceeding four times the thickness of the planks used. The planks shall be rigidly tied at both ends to prevent sliding and slippage. The thickness of the planks shall be adequate to take load of men and materials and shall not collapse.

4.8 Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent fall of persons or materials by providing suitable fencing or railing, the minimum height of which shall be 1.0 m, along with 15 cm high sheet obstruction at floor level along the railing.

4.9 Safe means of access shall be provided to all working platforms and other elevated working places. Every ladder shall be securely fixed. No single portable ladder shall be over 9 m in length. For ladders up to 3m in length the width between side rails in the ladder shall in no case be less than 300 mm. For longer ladders this width shall be increased by at least 20 mm for each additional metre of length. Step spacing shall be uniform and shall not exceed 300 mm.

4.10 Adequate precautions shall be taken to prevent danger from electrical lines and equipment. No scaffolding, ladder, working platform, gangway runs, etc. shall exist within 3 metres of any uninsulated electric wire. Whenever electric power and lighting cables are required to run through (pass on) the scaffolding or electrical equipments are used, such scaffolding structures shall have minimum two earth connections with earth continuity conforming to IS Code of Practice.

5. EXCAVATION, TRENCHING AND EARTH REMOVAL

5.1 All trenches 1.2 m or more in depth shall at all times be supplied with at least one ladder for each spacing of 30m in length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 1 m above the surface of the ground.

5.2 The sides of the trench which are 1.2 m or more in depth shall be stepped back to give suitable slope (angle of repose) or securely held by timber bracing, so as to avoid the danger of sides from collapsing. The excavated material shall not be placed within 1.5 m of the edges of the trench or half Of the depth of the trench, whichever is more. Cutting shall be done from top to bottom. Under no circumstances mining or under-cutting shall be done.

5.3 The Contractor shall ensure the stability and safety of the excavation, adjacent structures, services and the works.

5.4 Open excavations shall be fenced off by suitable railing and warning signals installed at night at well lit places so as to prevent persons slipping or falling into the excavations.

5.5 All blasting operations shall be carried out on the basis of procedures approved by Inspector of Explosives. All works in this connection shall be carried out as per IS Code of Practice. Barricades, Warning Signs etc. shall be placed on the roads/open area. Prior approval of such operation shall be

obtained from Safety Engineer/Engineer-In-Charge of Works.

5.6 a) For removal of earth from an earth mound a written permission shall be obtained from the Engineer In-charge of the work and the Engineer I ncharge of the earth mound.

b) As far as practical, earth shall be removed mechanically.

c) Wherever manual removal of earth is involved, earth shall be removed from the top by maintaining the proper slope equal to the angle of re pose of the earth.

d) Such work shall be constantly supervised by the contractor's responsible person and frequently inspected by the departmental representative to ensure that no under-cutting is done.

6. CONCRETING

Shuttering and supporting structures shall be of adequate strength and approved by Engineer-In-Charge. This shall be ensured before concrete is poured. The procedure approved by Engineer-In-Charge shall be followed for mixing, transporting and pouring of concrete.

7. DEMOLITION

Before any demolition work is commenced and also during the progress of the work:

a) All roads and open area adjacent to the work site shall either be closed or suitably protected. Appropriate warning signs shall be displayed for cautioning approaching persons.

b) Before demolition operations begin, the Contractor shall ensure that the power on all electric service lines is shut off and the lines cut or disconnected at or outside the demolition site. If it is necessary to maintain electric power during demolition operation, the required service lines shall be adequately protected against damage. Persons handling heavy materials /equipments shall wear safety shoes.

c) No floor, roof or other part of the building shall be overloaded with debris or materials as to render it unsafe.

d) Entries to the demolition area shall be restricted to authorised persons only.

8. PERSONAL PROTECTIVE EQUIPMENT

All necessary personal protective equipment as considered necessary by the Engineer-in-charge shall be kept available by contractor for the use of the persons employed on the site and maintained in a condition suitable for immediate use. Also the Contractor shall take adequate steps to ensure proper use of equipment by those concerned. The personal protective equipment are to be provided by the contractor.

(a) All persons employed at the construction site shall use Safety helmets. For other types of works, persons working in that area shall also use safety helmets, if advised by Safety Engineer/Engineer-In-Charge.

(b) Workers employed on mixing asphaltic materials, cement and lime mortars shall use protective goggles, protective foot wear and hand gloves. Use of proper respirators shall be an advantage.

(c) Persons engaged in welding and gas cutting works shall use suitable welding face shields. The persons who assist the welders shall use suitable goggles. Protective goggles shall be worn while chipping and grinding.

(d) Stone breakers shall use protective goggles. They shall be seated at sufficiently safe intervals of distance.

(e) Persons engaged in or assisting in shot blasting operations and cleaning the blasting chamber shall use suitable gauntlets, overalls, dust-proof goggles, boots and protective hood supplied with fresh air at the minimum rate of 9 m3/hr.

(f) All persons working at heights more than 4.5 m above ground or floor and exposed to risk of falling down shall use safety belts, unless otherwise protected by cages, guard railings, etc. In places where the use of safety belts is impractical, suitable net of adequate strength fastened to substantial supports shall be employed.

(g) All powered two-wheeler motorcycle and scooter drivers and their pillion riders shall wear crash helmets inside the Project/Plant sites.

(h) When workers are employed in sewers and inside man-holes which are in use, the Contractor shall ensure that the manholes are opened and are adequately ventilated at least for an hour. After it has been well-ventilated, the atmosphere inside the space shall be checked for the presence of any toxic gas or oxygen deficiency and recorded in the register before the workers are allowed to get into the man-holes. The man-holes opened shall be cordoned off with suitable railing and provided with warning signals or caution boards to prevent accidents. There shall be proper illumination in the night.

9. PAINTING

9.1 The Contractor shall not employ women on the work of painting with products containing lead in any form. Only men above the age of 18 years shall be employed on the work with lead paint. The following precautions shall be taken during the work.

* Supplied air respirators shall be provided for use by the workers when paint is applied in the form of spray, or a surface having lead paint is dry rubbed or scraped.

* Overalls shall be supplied by the Contractors to the workmen and adequate facilities shall be provided to enable the painters to wash at the cessation of work.

* All painting jobs, especially those in which lead paints are used shall be kept under industrial hygiene surveillance.

9.2 Smoking, open flames or sources of ignition shall not be allowed in places where paints and other flammable substances are stored, mixed or used. A caution board, with the instructions written in national/regional language, "SMOKING - STRICTLY PROHIBITED" shall be displayed in the vicinity where painting is in progress or where paints are stored. Symbols shall also be used for caution boards.

Suitable fire extinguishers / sand buckets shall be kept available at places where flammable paints are stored, handled or used.

When painting work is done in a closed room or in a confined space, adequate ventilation shall be provided. If adequate ventilation cannot be provided, workers shall wear suitable respirators.

9.3 Epoxy resins and their formulations used for painting shall not be allowed to come in contact with the skin. The workers shall use plastic gloves and/or suitable barrier creams.

Adequate ventilation shall be provided especially when working with hot resin mixes. Increased personal hygiene shall be practised to control inadvertent contact with the resin and eliminate its effects.

Workers shall thoroughly wash hands and feet before leaving the work. Work clothes shall be changed and laundered frequently.

10. LIFTING MACHINES AND TACKLES

10.1 Use of lifting machines and tackles including their attachments, anchorage and supports shall conform to the following standards or conditions.

(a) Lifting machines and tackles shall be of good mechanical construction, sound material and adequate strength and free from any defects and shall be kept in good repair and in good working order.

Every rope used in hoisting or lowering materials or as a means of suspension shall be of good quality and adequate strength and free from any defect.

(b) Every crane operator or lifting appliance operator shall be properly qualified. No person under the age of 21 years shall be in charge of any hoisting machine or give signal to operator of such machine.

(c) In case of every lifting machine (and of every chain, ring, hook, shackle, swivel and pulley block used in hoisting or as means of suspension) the safe working load shall be ascertained and clearly marked. In case of a lifting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing. This shall be approved by the Safety Engineer.

(d) In case of departmental machines, the safe working load shall be notified by the Engineer-in-charge. As regards Contractor's machines, the Contractor shall notify the safe working load of the machine to the Engineer-in-charge whenever he brings any machinery to site of work and get it verified by the Engineer-in-charge, supported by a valid test certificate by the competent Person.

(e) Thorough inspection and load testing of lifting machines and tackles shall be done by a competent person at least once every 12 months and records of such inspection and testing shall be maintained.

10.2 Motors, gearing transmission, couplings, belts, chain drives and other moving parts of hoisting appliances shall be provided with adequate safeguards. Hoisting appliances shall be provided with such means as will reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced or lowered.

11. WELDING AND GAS CUTTING

11.1 Welding and gas cutting operations shall be done only by qualified and

authorised persons and as per IS specifications and Code of Practice.

11.2 Welding and gas cutting shall not be carried out in places where flammable or combustible materials are kept and where there is danger of explosion due to presence of gaseous mixtures.

11.3 Welding and gas cutting equipment including hoses and cables shall be maintained in good condition.

11.4 Barriers shall be erected to protect other persons from harmful rays from the work. When welding or gas cutting is in elevated positions, precautions shall be taken to prevent sparks or hot metal falling on persons or flammable materials.

11.5 Suitable type of protective clothing consisting of fire resistant gauntlet gloves, leggings, boots and aprons shall be provided to workers as protection from heat and hot metal splashes. Welding shields with filter glasses of appropriate shade shall be worn as face protection.

11.6 Adequate ventilation shall be provided while welding in confined space or while brazing, cutting or welding zinc, brass, bronze, galvanized or lead coated materials.

11.7 Welding and gas cutting shall not be done on drums, barrels, tanks or other containers unless they have been emptied, cleaned thoroughly and it is made certain that no flammable material is present.

11.8 Fire extinguisher shall be available near the location of welding operations. Fire Safety Permit shall be obtained for working at vulnerable areas and operating areas before flame cutting/welding is taken up.

11.9 For electric (Arc) welding the following additional safety precautions shall be taken:

i) When electrical welding is undertaken near pipe lines carrying flammables, such pipe lines shall not be used as part of earth conductor but a separate earth conductor shall be connected to the machine directly from the job.

ii) Personnel contact with the electrode or other live parts of electric welding equipment shall be avoided.

iii) Extreme caution shall be exercised to prevent accidental contact of electrodes with ground.

iv) The welding cables shall not be allowed to get entangled with power cables. It shall be ensured that the cables are not damaged by movement of materials.

12. GRINDING:

12.1 All portable grinders shall be used only with their wheel guards in position to reduce the danger from flying fragments should the wheel break during the use.

12.2 Grinding wheels of specified diameter only shall be used on a grinder - portable or pedestal - in order not to exceed the prescribed peripheral speed.

12.3 Goggles shall be used during grinding operation.

13. ELECTRICITY

Guide lines for providing temporary power supply at the site and general safety procedures for using electricity are given in the enclosed Annexure.

14. HOUSE KEEPING

14.1 The Contractor shall at all times keep his work spot, site office and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment.

14.2 Welding and other electrical cables shall be so routed as to allow safe traffic by all concerned.

14.3 No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Engineer-in-charge may require the Contractor to remove any materials which are considered to be of danger or cause inconvenience to the public. If necessary, the Engineer-in-charge may cause them to be removed at the Contractor's cost.

14.4 At the completion of the work, the Contractor shall have removed from the work premises all scaffoldings, surplus materials, rubbish and all huts and sanitary arrangements used/installed for his workmen on the site.

14.5 The Engineer-in-charge has the right to stop work if the Contractor fails to improve upon the housekeeping after having been notified.

15. FIRE SAFETY

All necessary precautions shall be taken to prevent outbreak of fires at the construction site. Adequate provisions shall be made to extinguish fires should they still break out.

(a) Quantities of combustible materials like timber, bamboos, coal, paints, etc., shall be the minimum required in order to avoid unnecessary accumulation of combustibles at site.

(b) Containers of paints, thinners and allied materials shall be stored in a separate room which shall be well ventilated and free from excessive heat, sparks, flame or direct rays of the sun. The containers of paint shall be kept covered or properly fitted with lid and shall not be kept open except while using.

(c) Fire extinguishers as approved by the Engineer-in-charge shall be located at the construction site at appropriate places.

(d) Adequate number of Contract workmen shall be given education and training in fire fighting and extinguishing methods.

16. SAFETY WORK PERMIT

16.1 In order to ensure safety of work for hazardous operation (such as entry into confined spaces, welding/cutting on equipment/pipes where explosion hazard is present, works on high voltage and main medium voltage lines, blasting etc.,) special Safety Work Permits (SWP) shall be raised. The SWP's shall also to be obtained for any other work as recommended by Safety Engineer.

16.2 The Contractor shall strictly ensure all the safety conditions and

requirements stipulated in the Safety Work Permit. The decision of the Safety Engineer shall be final in this regard.

17. WORK IN RADIATION AREA

The Contractor shall follow the stipulated procedure regarding work in the radiation area and other works related with radiography.

18. WORK IN AND AROUND WATER BODIES

When the work is done near any place where there is risk of drowning, all necessary rescue equipment such as life buoys and life jackets shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision shall be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work. Persons who do not know swimming shall not be engaged alone for any work where risk of drowning exists. Sufficient number of life buoys or life jackets shall be provided.

19. MEDICAL FACILITIES

19.1 The Contractor shall arrange adequate facilities for medical aid and treatment for his staff and workers engaged on the work site including the first-aid facilities if they are not available at the Project Site.

19.2 First-aid appliances including sterilized dressing, cotton wool and antiseptic cream shall be made available at a readily accessible places at every work site. These shall be maintained in good order under the charge of a responsible person.

19.3 At large work places where hospital facilities are not available within easy reach of the works, first-aid posts shall be established and be manned by a trained compounder. An ambulance shall be available during the entire period of work for attending to injury cases.

20. SAFETY OFFICER/SAFETY COORDINATOR

The Contractor shall have a Safety Officer or a supervisor to be designated as a Safety Coordinator in order to specifically look into the implementation of different safety requirements of the contract work. The person thus designated will in general co-ordinate with the Engineer-in-charge on matters of safety and in particular ensure that the Safety Guide is complied with fully. His name shall be displayed on the Notice Board at a prominent place at the work site.

21. REPORTING OF ACCIDENT

21.1 All accidents leading to property damage and/or personnel injuries shall be reported to the Engineer-In charge immediately who all inform SARCOP to be followed up with detailed accident reports in prescribed form.

21.2 Contractor shall also submit a monthly statement of accidents to Engineer-In-Charge by 4th of every month showing details of accident, nature of injury including disability, days lost, treatment required, etc., and the extent of property damage.

22. PUBLIC PROTECTION

The Contractor shall make all necessary provisions to protect the public. He shall be bound to bear the expenses for defense of every action or other proceedings at law that may be brought

by any person for injury sustained owing to neglect of any precaution required to taken to protect the public. He shall pay any damage and cost which may be awarded in any such suit, action or proceedings to any such person, or the amount which may be fixed as a compromise by any such person.

23. OTHER STATUTORY PROVISIONS

Notwithstanding the above clauses from 1 to 21 there is nothing in these to exempt the Contractor from the provisions of any other Act or Rules in force in the Republic of India. In particular all operations involving the transport, handling, storage and use of explosives shall be as per the standing instructions and conform with the Indian Explosives Act, 1884 and the explosives Rules, 1983. Handling, transport, storage and use of compressed gas cylinders and pressure vessels shall conform with the Gas Cylinder Rules 1981 and Static and Mobile Pressure Vessels (Unfired) Rules 1981. In addition, The Indian Electricity Act 1910 and Indian Electricity Rules 1956, the Atomic Energy Act, 1962, the Radiation Protection Rules, 1971, Radiation Protection Manual of Nuclear Facilities and the Atomic Energy (Factories) Rules, 1988 and various rules and Act related to mining shall also be strictly complied with.

ANNEXURE

GUIDELINES AND GENERAL PROCEDURES FOR SUPPLY AND USE OF ELECTRICITY AT SITE 1.

GENERAL

Following safety requirements shall be complied with before the Contractor uses the power supply.

1.1 The Contractor shall submit a list of licenced electrical staff to be posted at site.

1.2 It shall be the responsibility of the Contractor to provide and maintain complete installation on the load side of the supply point with regard to the safety requirements at site. All cabling and installation shall comply with the appropriate statutory requirements given below and shall be subject to approval of the Departmental Engineer-in-charge/ Electrical Engineer.

a) Indian Electricity Act, 1910
b) Electricity (Supply) Act, 1948
c) Indian Electricity Rules, 1956
d) National Electric Code 1985
e) Other relevant rules of Local Bodies and Electricity Boards

After installation of the electrical power wiring works by the contractor, form of completion certificate as per IS 732 (Form SGCW - 1) shall be submitted by the contractor duly signed by the authorised valid licenced electrical contractor and /or supervisor along with one copy of the contractor's licence and/or competency certificate of supervisor issued by the Electricity Board/Government Electricity Organisations as per the enclosure.

The power supply shall be regulated as per the terms and conditions of the supply of the respective electricity boards.

1.3 (a) For purposes of electrical load and power planning by the electrical section, the contractor shall furnish along with the tender, the estimated load requirement of electric power for the execution of the contract works in terms of maximum Kilo Watt or KVA demand during various periods/months of the contract period along with the details of the construction electrical equipment/machinery with their individual load details and location/locations of power supply required for availing temporary electric power supply in the standard proforma enclosed (Form SGCW - 2).

(b) The electric power supply will be generally made available at one point in the works site of the contractor by the department.

(c) Where distribution boards are located at different places the Contractor shall submit schematic drawing indicating all details like size of wires, Over Head or cable feeders, earthing etc. The position and location of all equipment and switches shall be given.

1.4 The Contractor shall make his own arrangements for main earth electrode and tappings thereof. The existing earth points available at site can be used at the discretion of the Departmental Electrical Engineer with prior permission. Method of earthing, installation and earth testing results shall conform to relevant I.S. Specifications (IS-3043).

All three phase equipment shall be provided with double earthing. All light fixtures and portable equipment shall be effectively earthed to main earthing.

1.5 All earth terminals shall be visible. No gas pipes and water pipes shall be used for earth connection. Neutral conductor shall not be treated as earth wire.

1.6 The Contractor shall not connect any additional load without prior permission of Departmental Electrical Engineer. For obtaining additional power required, test reports of the tests mentioned in (d) of Form SGCW - 1 shall be submitted.

1.8 Joints in earthing conductors shall be avoided. Loop earthing of equipment shall not be allowed. However tappings from an earth bus may be done.

1.9 The entire installation shall be subjected to the following tests before energisation of installation including portable equipment:

a) Insulation resistance test
b) Polarity test of switches
c) Earth continuity test
d) Earth electrode resistance.

The test procedures and their results shall conform to relevant IS specifications. The Contractor shall submit a test report for his complete installation every 2 months or after rectifying any faulty section in the specimen test report. One such test report for the complete installation shall be submitted before onset of monsoon.

2. The following are provided for general guidance of the Contractor and shall be read as specific requirement, in addition to complying with Indian Electricity Act, Indian Electricity Rules and IS Specifications.

2.1 <u>Installation</u>

a) Only persons having valid wireman's licence/competency certificate shall be employed for carrying out electrical work and repair of electrical equipment, installation and maintenance at site. The job shall be supervised by a qualified licenced Supervisor.

b) Electrical equipment and installations shall be installed and maintained as to prevent danger from contact with live conductors and to prevent fires originating from electrical causes like short circuits, overheating etc. Installation shall not cause any hindrance to movement of men and materials.

c) Materials for all electrical equipment shall be selected with regard to working voltage, load and working environment. Such equipment shall conform to the relevant standards.

d) The minimum clearance to be maintained for all overhead lines along roads and across roads shall be as per the statutory requirements as listed in clause 1.2 of Annexure.

e) Grounding conductor of wiring system shall be of copper or other corrosion-resistant material. An extra grounding connection shall be made in appliances/equipment where chances of electric shock is high.

f) Electric fuses and/or circuit breakers installed in equipment circuits for short circuit protection shall be of proper rating. It is also recommended that high rupturing capacity (HRC) fuses be used in all circuits. For load of 5 KW or more earth leakage circuit breaker shall be provided in the circuits.

g) Wherever cables or wires are laid on poles, a guard wire of adequate size shall be run along the cables/wires and earthed effectively. Metallic poles as a general rule, shall be avoided and if used shall be earthed individually. Anti-climbing guards and danger notices shall be provided on poles. Each equipment shall have individual isolating switches.

h) Wires and cables shall be properly supported and an approved method of fixing shall be adopted. Loose hanging of wires & cables shall be avoided. Lighting and power circuits shall be kept distinct and separate.

i) Reinforcement rods or any metallic part of structure shall not be used for supporting wires and cables, fixtures, equipment, earthing etc.

j) All cables and wires shall be adequately protected mechanically against damages. In case the cable is required to be laid under ground, it shall be adequately protected by covering the same with bricks, Plain Cement Concrete (PCC) tile or any other approved means.

k) All armoured cables shall be properly terminated by using suitable cable glands. Multistranded conductor cables shall be connected by using cable lugs/ sockets. Cable lugs shall preferably be crimped. They shall be of proper size and shall correspond to the current rating and size of the cable. Twisted connections will not be allowed.

l) All cable glands, armouring and sheathing of electric cables, metal circuits and their fittings, metallic fittings and other non-current carrying parts of electrical equipment and apparatus shall be effectively grounded.

m) All the Distribution Boards, Switch Fuse units, Bus bar chambers, ducts, cubicles etc. shall have MS enclosures and shall be dust, vermin and water proof. The Distribution Boards, switches etc. shall be so fixed that they shall be easily accessible. Changes shall be done only after the approval of the Departmental Electrical Engineer.

n) The Contractor shall provide proper enclosures/covers of approved size and shape for protection of all the switch board, equipment etc. against rain. Exposed live parts of all electrical circuits & equipment shall be enclosed permanently. Crane trolley wires and other conductors which cannot be completely insulated shall be placed such that they are inaccessible under normal working conditions.

o) Iron clad industrial type plug outlets are preferred for additional safety.

p) Open type Distribution Boards shall be placed only in dry and ventilated rooms; they shall not be placed in the vicinity of storage batteries or otherwise exposed to chemical fumes.

q) Isolating switches shall be provided close to equipment for easy disconnection of electrical equipment or conductors from the source of supply when repair or maintenance work has to be done on them

r) In front of distribution boards a clear space of 90 cm shall be maintained in order to have easy access during an emergency.

s) Adequate working space shall be provided around electrical equipment which require adjustment or examination during operation.

t) As far as possible electrical switches shall be excluded from a place where there is danger of explosion. All electrical equipment such as motors, switches and lighting fittings installed in work room where there is possibility of explosion hazard shall be explosion proof.

u) All connections to lighting fixtures, starters or other power supplies shall be provided with PVC insulated, PVC sheathed twin/three/four core wires to have better mechanical protection for preventing possible damage to equipment or injury to personnel. Taped joints shall not be allowed and the connections may be made in looping system. Electric starter of motors, Switches shall not be mounted on wooden boards. Only sheet steel mounting or iron frame work shall be used.

v) All the lighting fixtures and lamp holders shall be of good quality and in good condition. Badly repaired or broken holders, etc. shall not be used.

w) Only PVC insulated and PVC sheathed wires or armoured PVC insulated and sheathed cables shall be used for external power supply connections of temporary nature. Weather proof rubber wires shall not be used for any temporary power supply connections. Taped joints in the wires shall not be used.

x) The bulbs/lamps used for illumination and testing purpose shall have cover or guard to protect them from accidental breakages. Only 24 V supply system shall be used for hand lamps etc, while working inside metallic tanks or conducting vessels.

y) After installation of new electric system and or other extensive alterations to existing installations, thorough inspection shall be made by Departmental Electrical Engineer before the new system or new extension is put in use.

z) Contractor shall ensure that power factor for their loads shall be maintained at 0.85. In case the power factor falls below 0.85, necessary capacitor units shall be provided by the contractor.

2.2 <u>Operation & Maintenance</u>

a) All persons who work with electrical installation/equipment shall be aware of the electrical hazards, use of protective devices and safe operational procedures. They shall be given training in fire fighting, first aid and artificial resuscitation techniques.

b) The supervisor shall instruct the workers in the proper procedure, specify and enforce the use of necessary protective equipment such as adequately insulated pliers, screw drivers, fuse pullers, testing lamps and similar hand tools. Only wooden ladders shall be used to reach the heights in electrical work.

c) No material or earth work shall be allowed to be dumped below or in the vicinity of the bare overhead line conductors.

d) Separate work permits shall be issued for individual group leaders working on the same system which shall be returned after the completion of the work to Safety Supervisor and no system shall be energised without the clearance

of Safety Supervisor.

e) Before any maintenance work is commenced on electrical installations/ equipment, the circuits shall be de-energised and ascertained to be dead by positive test with an approved voltage testing device. Switches shall be tagged or the fuse holders withdrawn before starting the work. Adequate precautions shall be taken in two important aspects viz.

i) That there shall be no danger from any adjacent live parts and ii) That there shall be no chances of re-energisation of the equipments on which the persons are working.

f) While working on or near a circuit, whenever possible the use of one hand may be practiced even though the circuit is supposed to be dead. The other hand may preferably be kept in pocket.

g) When it is necessary to touch electrical equipment (for example when checking for overload of motors) back of the hand may be used. Thus, if accidental shock were to cause muscular contractions, one would not 'freeze' to the conductor.

h) Operation of electrical equipment shall be avoided when standing on wet floor or when hands are wet.

i) Before blown fuses are replaced, the circuit shall be locked out and an investigation shall be made for the cause of the short circuit or overload.

j) When two persons are working within reach of each other, they shall never work on different phases of the supply.

k) When structural repairs, modification or painting work are to be undertaken, appropriate measures shall be taken for the protection of persons whose work may bring them into the proximity of live equipment/circuit.

l) It shall be ensured that the insulation and wire size of extension cords are adequate for the voltage and current to be carried.

m) While tapping electricity from the socket, plug top must be used. It shall be ensured that no extension boards are over loaded while tapping. Only standard three pin plugs shall be used for tapping electricity. Broken sockets/plugs shall be replaced immediately with good ones. Only joint free cables shall be used for connecting equipment/apparatus.

n) Floors shall be kept free from trailing electrical cables to avoid tripping hazard.

o) Power supply to all the machines and lighting fixture shall be switched off when not in use.

p) Temporary electrical connections shall be removed as soon as the stipulated work is over. After completion of the works, the Contractor shall dismantle the distribution boards and the other facilities he may have erected.

q) Unauthorised tapping of power by others from distribution boards under the control of the contractor shall be prohibited at all circumstances.

r) Safety work permits shall be used for switching off the main feeder and equipment by the contractor.

t) "MEN ON LINE" "DO NOT SWITCH ON" "DANGER" or "CAUTION" board as applicable shall be used during maintenance works on the electrical equipment.

2.3 Portable electrical equipment

a) Portable electrical equipment shall be regularly examined, tested and maintained to ensure that the equipment and its leads are in good order. Register shall be maintained for inspection recording the testing dates and results of the equipments.

b) All portable appliances shall be provided with three core cable and three pin plug. The third pin of the plug shall invariably be earthed. It shall be ensured that the metal part of the equipment shall be effectively earthed.

c) All connections to portable equipment or machines from the panel/ distribution board/extension board shall be taken using 3 core double insulated PVC flexible copper wire in one length. No joints shall be allowed in this flexible wire. In case single length of wire is not sufficient for a particular location then the supply can be tapped by providing another extension board comprising of switch and socket.

d) Flexible cables for portable lamps, tools, and apparatus shall be regularly examined, tested periodically and maintained to ensure safety.

FORM NO. SGCW - 1

FORM FOR COMPLETION CERTIFICATE

(Prescribed under Cl.1.2 of Annexure)

I/We certify that the installation detailed below has been installed by me/us and tested and that to the best of my/our knowledge and belief, it complies with Indian Electricity Rules, 1956 as well as IS: 732-1963 code of practice for Electrical Wiring Installations. (System voltage not exceeding 650 Volts (Revised).

Electric installation at .....

Voltage and system of supply a)

Particulars of work	Number	Total load	Type of system of wiring
i) Light Points			
ii) Fan points			
iii) Plug points (3 pin)			
iv) Motors			

b) If the work involves installation of overhead lines and/or underground cable _____

c) Earthing:

Description of earthing electrode, size of earth wire and number of electrodes provided:

d) Test results:

1. Insulation resistance for the whole installation:

   i. Between conductors

   ii. Between each conductor and earth

2. Resistance of earthing electrode or earthing system.

3. Maximum earthing resistance of installation

Signature of Supervisor
Name and address of Supervisor.

Signature of Contractor
Name and address of Contractor.

FORM NO. SGCW-2

'A' APPLICATION FOR SERVICE CONNECTION BY CONTRACTOR

(Prescribed under Cl.1.3 of Annexure) (to be filled in triplicate)

1. Name & Address of Contractor :

2. Reference to Tender & Work Order :

3. Completion period :

4. Connected load details (please attach details in a separate sheet) :

5. Max. demand anticipated :

6. Nature of service connection required: (whether single or three phase)

7. Place where service required :

   a) Works :
   b) Colony :

8. If supply of electricity is free or chargeable (Please enclose extract of conditions from the tender) :

9. Details of meter provided :

   a) If meter required from the Department, whether SD is paid :

   b) Details of SD (Security Deposit) :

   c) Whether meter is tested or not, if: tested, attach test report, if not, details of testing fee deposited

10. Name of Supervisor/Electrician in charge of installation and maintenance :

11. Electrical licence No. of person mentioned against col. 10 :

12. Electrical safety appliances available for use :

13. Fire extinguishers available for use :

14. First Aid facility/box available for use, if any. :

(Signature of the Contractor)

Date: **Name**:

'B' CERTIFICATE BY THE CONTRACTOR

Certified that my/our installations have been carried out in accordance with I.E. Rules and that I/We have employed competent persons to handle the installations.

I/we am/are agreeable to the bills, in respect of this service connections being raised on the basis the connected load furnished above, in case the actual consumption falls below the one stipulated by the tender conditions.

(Signature of the contractor) Name:

Address:

Date:

'C' CERTIFICATE BY THE CONTRACT CONTROL ENGINEER

Verified the particulars and forwarded to the Engineer In charge.

(Signature of Contract control Engineer) Name:

Section: Civil/Electrical/Mechanical.

'D' CERTIFICATE BY THE ENGINEER IN CHARGE

Certified that the particulars furnished by the Contractor are true to the best of my knowledge and belief and that I have satisfied myself as to the safe conditions of electrical installations for which the service connection is applied for.

Signature:
Name:

Date:

Designation with section:

'E' CERTIFICATE BY THE SAFETY ENGINEER

Certified that I have inspected the electrical installations referred herein and after satisfying myself about the safe conditions of the installation, I hereby recommend that the service connection be given to the Contractor.

Signature of Safety Engineer.

Name

Date:

'F' AUTHORISATION BY THE ELECTRICAL ENGINEER

Service connection may be/may not be given for the reasons noted hereunder.

Signature of Electrical Engineer. Name:

Date: **Designation:**

'G' 'REPORT OF COMPLIANCE'

Service connection is given by me on

a) Meter Nos. 1.
23.

b) Initial readings: 1.
23.

c) Locations: 1.
23.

d) Meter Sealings: 1.
23.

Signature of Ele ctrical Engineer
(Metering and Billing)

Name:

Date: **Designations:**

Note:

Ist copy to Contract Control Engineer

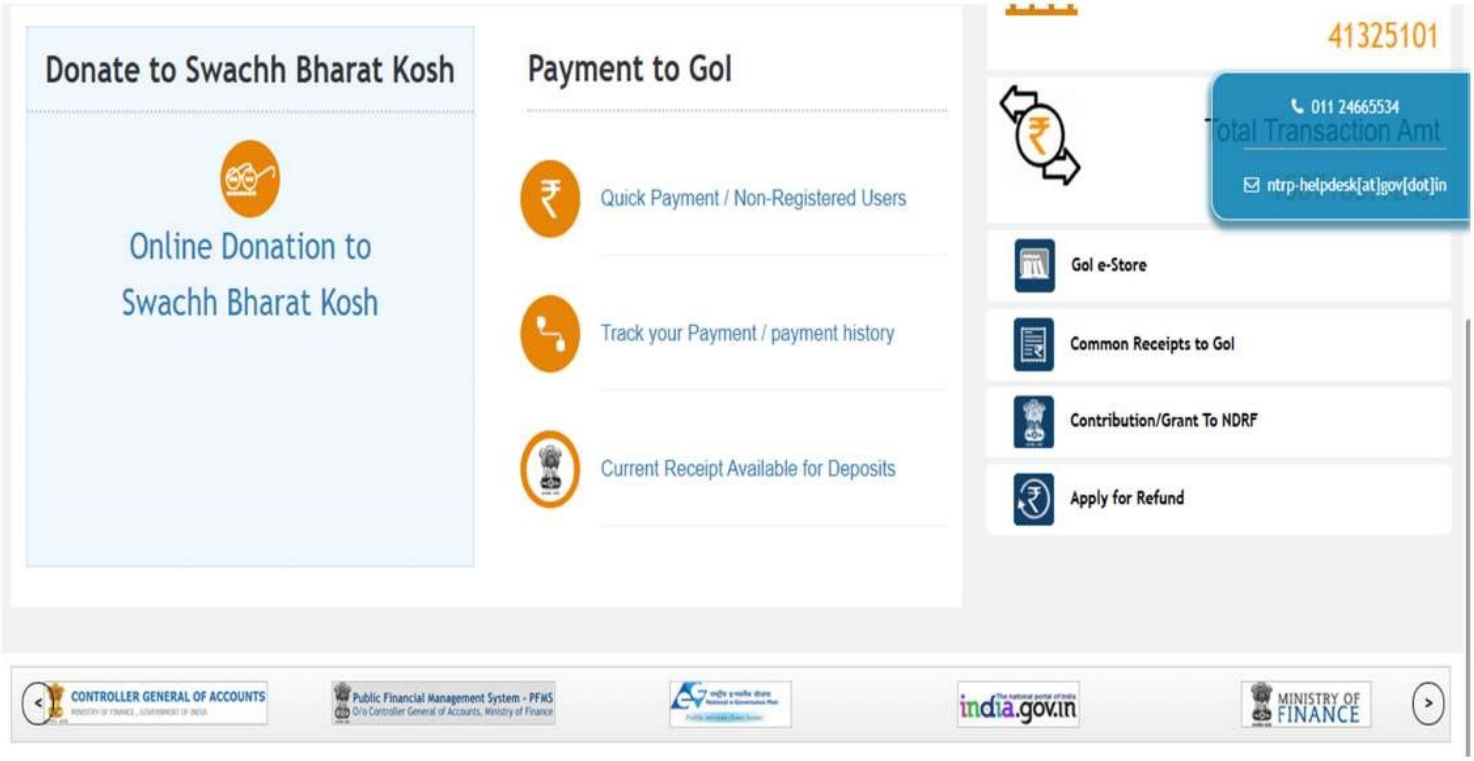
2nd copy to Safety Engineer

and 3rd copy to Electrical Engineer

)After all the formalities are completed
)and Report of Compliance
) in (G) are filled up by the
) Electrical Engineer after power
) supply is given.

Kindly open site :https://bharatkosh.gov.in/

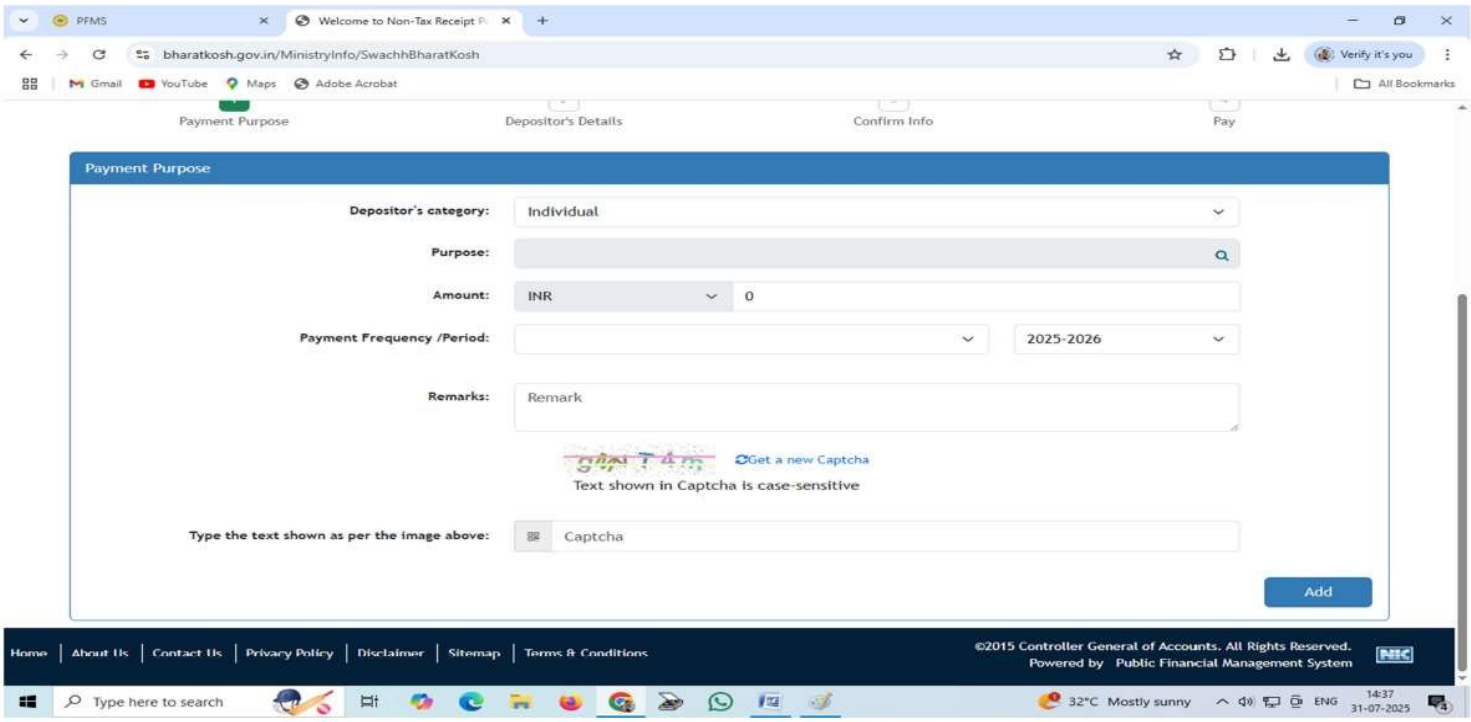
Click:Quick payments



Search :Purpose

Click Ministry as:ATOMIC ENERGY

Purpose:Type HWBFT & Select desired Payment option



For payment of EMD through online, open the site https://bharatkosh.gov.in/ and

i) Click: **Quick payments,**
ii) Search: **Purpose,**
iii) Click Ministry as: **ATOMIC ENERGY,**
iv) Purpose: Type **HWBFT-EMD,**
v) **Enter your details, your mobile & email ID,**
vi) **Select payment gateway and Pay,**
vii) **Download E-Receipt immediately.**

Copy of E-Receipt of payment shall be mail to mm@tal.hwb.gov.in and dymme@tal.hwb.gov.in before due date of submission.

For assistance / clarification Contact 06760-262382 regarding **payment of EMD** during working hours.

In the "REMARKS" column, it may be mentioned that "Payment is for EMD and Tender No._____" so as to relate the payments for respective NIT.

(The soft copy of the online payment receipt and challan generated through the system shall be uploaded along with the bid as per the format enclosed herewith at Annexure -A for enabling refund of EMD.)

Annexure-A

Pre- Receipt for refund of Earnest Money Deposit (EMD)

Received with thanks from HEAVY WATER BOARD FACILITIES, TALCHER a sum of Rs……../- (Rs……..only), towards refund of Earnest Money Deposit paid in respect of Tender for "……" vide Tender No…… dated ……...

(Note: EMD will be returned to unsuccessful bidder only after finalization of the tender)

Bank details for refund of EMD	
Name of the Party	
Name of Bank	
Account Number	
IFSC Code	
Bharatkosh Challan No. (Mandatory in case of online payment of EMD)	

Signature of Bidder

Date:

Place:

Name & Address:

Signature Not Verified
Digitally signed by JAITUL HAQUE
Date: 2026.05.19 16:07:44 IST
Location: eProcure-EPROC