



न्यूक्लियर पावर कारपोरेशन ऑफ इण्डिया लिमिटेड
NUCLEAR POWER CORPORATION OF INDIA LIMITED
(भारत सरकार का उद्यम) (A Government of India Enterprise)
रावतभाटा राजस्थान साइट Rawatbhata Rajasthan Site
डाक: अणुशक्ति, वाया:कोटा(राज.) PO:Anushakti-323303 Via:Kota (Raj)
☎01475-242032, फ़ैक्स: 01475-242357, ✉ vinodjoshi@npcil.co.in



सं. No. RR Site /Head(C&MM-WG)/Tender No-CPT-A2705R/2025/M/11

दिनांक Date: 16.01.2025

कायदेशि WORK ORDER

प्रति To,
मैसर्स. मधुसूदन इंजीनियरिंग कंपनी
M/s MADHUSUDAN ENGINEERING CO.
बडगांव कोटा
Badgone Kota
मोबाइल न. 8696712744
ई-मेल - deepaktak810@gmail.com

W.O. No.	78278
SL CODE	WOS 78278
A/C CODE	14392
USI NO.	28200
CHARGE CODE	6402
CC CODE	497
MSME Registration	Yes
PAN NO.	AABFM8376L
NAME	MADHUSUDAN ENGINEERING CO.
GSTIN	08AABFM8376L1ZP
GST Rate	18%
SAC Code	995416
Bank Account No.	37369860191
Bank & Branch	STATE BANK OF INDIA, Kota
IFSC Code	SBIN0001534

कृपया ध्यान दें Kind Attention (RAM DAYAL MALAV राम दयाल मालव)

विषय Subject	:	“आर आर साइट पर रापबिघ 5 से 8 के लिए मुख्य गार्ड हाउस-II (MGH-II) का निर्माण एवं विभिन्न स्थानों पर अन्य सम्बद्ध कार्य” Work Order for the work of “Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.”
संदर्भ Reference	:	1. निविदा सं. Tender No. :- NPC/RRS/78/2024/CPT-A2705R
	:	2. आपका ई-निविदा प्रस्ताव सं. : 757922. दिनांक.20.11.2024. Your e-Tender Offer no. : 757922 Dtd. 20.11.2024
	:	3. Our Letter no. RR Site/ENC-1 C&MM (WG)/PT-A2705R/2024/M/188 dtd. 05.12.2024 for techno commercial negotiation.
	:	4. Our Letter no. NPCIL/RRS/C&MM-WG/2024/M/189 dtd. 05.12.2024 for Submission of notary attested photocopies of original documents verification regarding.
	:	5. MOM dtd. 07.12.2024 for techno commercial negotiation.
	:	6. Your letter no. Nil dtd. 09.12.2024 for Submission of notary attested photocopies of original documents verification regarding.
	:	7. Our Letter no. RR Site/Head(C&MM-WG)/CPT-A2705R/2024/M/197 dtd. 28.12.2024 for LOI.
	:	8. Your letter no. MEC/RAPS/5to8/MGH-II/11 dtd. 07.01.2025 for LOI.

प्रिय महोदय Dear Sir,

1.0 आपको सूचित किया जाता है कि (अनुलग्नक-1) उपरोक्त संदर्भनुसार आपके द्वारा उत्तरवर्ती पत्रों के साथ प्रस्तुत की गई बोली को एनपीसीआईएल के लिए एवं की ओर से मात्राओं एवं दरों की अनुसूची में दर्शाई गई मदों की दरें तथा कुल सभी करों सहित रु 10,79,99,224/- (रु. दस करोड़ उन्नासी लाख ननयानवे हजार दो सौ चोबिस मात्र) के मूल्य के लिए निविदा में सम्मिलित दरों को स्वीकार कर लिया गया है।

Website: www.npcil.nic.in Corporate Identification Number (CIN) - U40104MH1987GOI149458
Registered Office: 16th Floor, Center-1, World Trade Centre, Cuffe Parade, Colaba, Mumbai-400005

This is to inform you that the bid submitted by you along with subsequent letters as referred above has been accepted for and on behalf of NPCIL for the item rates as shown in the Schedule of Quantities and Rates (Annexure-1) covered by the tender for a total value of **₹ 10,79,99,224/- (Rupees Ten Crore Seventy Nine Lakh Ninety Nine Thousand Two Hundred Twenty Four Only)** inclusive of all taxes

- 1.1 संविदा के प्रचलन के दौरान वस्तु एवं सेवा कर की दर में कोई भी परिवर्तन होने पर दस्तावेजी साक्ष्य प्रस्तुत करने पर निगम द्वारा उसकी प्रतिपूर्ति/वसूली प्रयोज्य नियमों के अनुसार की जाएगी। Any variation in the rate of Goods & Service Tax during the currency of the contract shall be reimbursed/ recovered by the Corporation as per applicability on submission of documentary evidence.

2.0 मात्रा एवं दरें Quantities & Rates (AHR):

नीचे दर्शाए अनुसार SOQR की मदें अपसामान्य रूप से ऊंची हैं तथा इनका भुगतान नीचे सारणी में दी गई दरों के अनुसार किया जाएगा:

The items of SOQR as detailed below are abnormally high rated & will be paid at the rates as mentioned in the table given below.

क्र. सं. Sr. No.	एचआर मद सं. AHR item No.	कार्य आदेश मात्रा से अधिक दरें जीसीसी के अनुसार विचलन की सीमा तक Rates beyond W.O. Qty. (₹) up to deviation limit as per GCC
1.	3.02	668.00
2.	4	223.00
3.	53	68.00
4.	54	73.00
5.	67	253.00
6.	85	53.00
7.	126.1	4289.00
8.	126.2	1127.00
9.	146.1	4.00
10.	146.2	4.00
11.	146.3	4.00
12.	177.1	166.00
13.	243	11274.00

3.0 पूर्णता अवधि Completion Period:

- 3.1 यह कार्य सभी अर्थों में कार्य आरंभ होने की तारीख से **चोबिस (24) कैलेंडर माह** के भीतर पूर्ण कर लिया जाएगा। कार्य आरंभ होने की तारीख की गणना एलओआई जारी होने की तारीख से 10 दिनों के अंदर.

The work shall be completed in all respect within **Twenty Four (24) Calendar Months** from the date of commencement. The date of commencement will be reckoned from **10 days from date of issue of LOI.**

- 3.2 वास्तविक कार्य प्रारम्भ होने की तारीख से ईएसआई/बीमा पॉलिसी ली जानी है। कार्य प्रारम्भ किए जाने की वास्तविक तारीख एवं विधिमान्य बीमा योजना के प्रभावी होने की तारीख के बीच के समय को बीमा योजना की अननुपलना माना जाएगा तथा तदनुसार कार्रवाई की जाएगी।

ESI / Insurance policy is to be obtained from the date of actual commencement of work. The period between the date of actual commencement of work and effective date of valid insurance policy shall be treated as noncompliance of insurance policy and shall be governed accordingly.

3.3 समयबद्धता संविदा की आत्मा है तथा कार्य को कार्य की अनुसूची के अनुसार ही पूर्ण किया जाएगा।

The time shall be the essence of the contract & the work shall be completed as per the schedule of work.

4.0 सुरक्षा जमा Security Deposit:

4.1 सुरक्षा जमा संविदा मूल्य अर्थात ₹ 1,07,99,922/- (रुपए एक करोड़ सात लाख ननयानवे हजार नौ सौ बाईस मात्र) की राशि का 10% होगी तथा जीसीसी के खंड सं. 4.2 के अनुसार नियंत्रित होगी।

Security Deposit shall be @ 10% of the Contract value i.e. ₹ 1,07,99,922/- (Rupees One Crore Seven Lakh Ninety Nine Thousand Nine Hundred & Twenty Two Only) and shall be governed as per clause no. 4.2 of GCC.

4.2 सुरक्षा जमा की उपरोक्त की गई गणना को दो भागों में विभाजित किया जाएगा एवं तदनुसार प्रस्तुत किया जाएगा: Security Deposit as calculated above shall be split in following two parts and to be furnished accordingly:

a) जीसीसी के खंड सं. 4.2.3 के अनुसार, कार्यनिष्पादन गारंटी (अर्थात सुरक्षा जमा का 50%) ₹ 53,99,961/- (रुपए तरेपन लाख ननयानवे हजार नौ सौ इकसठ मात्र) संविदा एवं सामाग्री प्रबंधन (वर्क्स ग्रुप) को निर्धारित प्रपत्र में जमा कराई जाएगी। एलओआई/कार्य आदेश जारी होने के 30 दिनों के भीतर कार्यनिष्पादन गारंटी प्रस्तुत नहीं किए जाने पर इस कार्य आदेश को निरस्त समझा जाएगा।

As per clause no. 4.2.3 of GCC, performance guarantee (i.e. 50% of Security Deposit) ₹ 53,99,961/- (Rupees Fifty Three Lakh Ninety Nine Thousand Nine Hundred Sixty One Only) in the acceptable form shall be submitted to Contract & Material Management (Works Group). In case, performance guarantee is not submitted within the 30 days of issue of LOI /work order then this work order shall be liable towards cancellation.

b) प्रतिधारण राशि अर्थात सुरक्षा जमा (अर्थात सुरक्षा जमा का 50% जो ₹ 53,99,961/- है) (रुपए तरेपन लाख ननयानवे हजार नौ सौ इकसठ मात्र) की वसूली आपके चालू बिल (Running Bills) में से की जाएगी। Retention money (i.e. 50% of Security Deposit amounting ₹ 53,99,961/- (Rupees Fifty Three Lakh Ninety Nine Thousand Nine Hundred Sixty One Only) shall be recovered from your Running Bills.

4.3 प्रतिधारण राशि की कटौती उपरोक्त गणना किए गए सुरक्षा जमा के 50% की वसूली होने तक किए गए कार्य के मूल्य से 6% की दर से चालू बिलों में से की जाएगी। सुरक्षा जमा की राशि पर कोई ब्याज नहीं लगेगा। Retention Money shall be deducted at the rate of 6% of the value of work done from Running Bills till the 50% of Security Deposit amount as calculated above, is recovered. Security deposit amount will not bear any interest.

4.4 सुरक्षा जमा का प्रतिदाय संविदा की समान्य शर्तों के खंड 4.3 के अनुसार नियंत्रित होगा। बाराह (12) महीनों की "दोष देयता अवधि" (Defect Liability Period) (निविदा देस्तावेज के सेक्शन-I शिड्यूल-A के अनुसार) एनपीसीआईएल द्वारा पूर्णता प्रमाणपत्र जारी किए जाने की तारीख से प्रभावी होगा। Refund of security deposit shall be governed by clause no. 4.3 of General Conditions of Contract. "Defect Liability Period" (as per Schedule-A of Section-I of tender document) of Twelve (12) months will be effective from the date of completion as certified by the NPCIL.

5.0 भुगतान की शर्तें Payment Terms:

5.1 SOQR की मदों के लिए प्रगामी भुगतान (progressive payment) मासिक आधार पर निष्पादित किए गए कार्य तथा प्रभारी अभियंता द्वारा प्रमाणित किए जाने के अधीन के मानव संसाधन द्वारा मजदूरी भुगतान प्रमाणपत्र तथा निविदा सूचना के सेक्शन-III के अनुलग्नक-I के अनुसार जीएसटी इन्वोइस के साथ जीएसटी घोषणा प्रस्तुत करने पर चालू खाता बिलों (Running Account (RA) Bills) के माध्यम से अनुमोदित दरों के अनुसार किया जाएगा।

The progressive payment for the item of SOQR shall be made on monthly basis for the work executed & accepted as certified by EIC as per approved rates through Running Account (RA) Bills on submission of labour payment certificate issued by HR and GST invoice along with GST declaration as per Annexure-I of Section -III of Tender-Notice.

- 5.2 निविदा सूचना के सेक्शन-A के लागू खंड के अनुसार जल प्रभार की कटौती आपके बिलों में से की जाएगी।
Water charges as per relevant clause of Schedule-A of Tender-Notice will be deducted from your bills.
निविदा/संविदा की शर्तों के अनुसार प्रयोज्य प्रकार की अन्य वसूली जैसे दंड, किराया प्रभार, विद्युत प्रभार, यदि कोई हों, आदि भी संविदाकार के आर. ए. बिल में से की जाएगी।
Other recoveries if any, as per applicability such as penalty, hire charges, Electricity charges etc. shall also be made from Contractor's R.A. Bill as per Tender/Contract conditions.

5.3 **स्त्रोत पर कारों की कटौती Taxes Deduction at Source:**

आय कर: भारत सरकार/राज्य सरकार के विधिक निकायों द्वारा समय समय पर जारी अधिसूचनाओं के अनुसार प्रयोज्य।

Income Tax: As Applicable as per notification issued by the Statutory Body Govt. of India/State Govt. from time to time.

वस्तु एवं सेवा कर: भारत सरकार/राज्य सरकार के विधिक निकायों द्वारा समय समय पर जारी अधिसूचनाओं के अनुसार प्रयोज्य।

Goods & Service Tax: As Applicable as per notification issued by the Statutory Body Govt. of India/State Govt. from time to time.

कर: सीजीएसटी एवं एसजीएसटी अधिनियमों के "Anti-profiteering" प्रावधानों के तहत वस्तुओं एवं सेवाओं के आपूर्तिकर्ता होने के नाते आपको न्यून कराधान तथा साथ ही इनपुट टैक्स क्रेडिट पर मिलने वाले लाभ जैसे लाभों को अंतिम उपभोक्ता अर्थात एनपीसीआईएल को हस्तांतरित करने हैं।

Tax: Under "Anti-profiteering" provision of CGST & SGST Acts, being suppliers of Goods & Services, you are mandatorily required to pass on such benefits of lower taxation as well as benefits on input tax credit to the ultimate consumer i.e. NPCIL.

प्रतिवर्ती प्रभार प्रक्रिया: यह वर्तमान में प्रयोज्य नहीं है तथा कर विभाग को प्रयोज्य जीएसटी जमा करने/रियायत देने की पूरी जिम्मेदारी/देयता मैसर्स मधुसूदन इंजीनियरिंग कंपनी की होगी।

Reverse Charge Mechanism: Presently not applicable and entire responsibility/liability of depositing/remitting the applicable GST to Tax Department will lie with M/s MADHUSUDAN ENGINEERING CO.

उपरोक्त के अतिरिक्त, भारत सरकार/राज्य सरकार द्वारा समय-समय पर जारी अधिसूचना के आधार पर किसी अन्य कर की भी कटौती की जाएगी।

In addition to above, any other tax based on notification issued by Govt. of India/State Govt. from time to time shall also be deducted.

5.4 **संविदा के अलग-अलग स्तरों पर बोलीदाता द्वारा प्रस्तुत किए जाने वाले दस्तावेज निम्नानुसार हैं:**

Documents to be submitted by the bidder at different stages of contract are as follows:-

A) कार्य प्रारम्भ करने के पूर्व Before commencement of work:

संविदाकार कार्य प्रारम्भ करने के पहले निम्नलिखित दस्तावेज प्रभारी अभियंता के समक्ष प्रस्तुत करेगा।

The Contractor shall submit following documents to Engineer-in- Charge before commencements of work.

a. कार्य आदेश/एलओआई/संविदा आदेश/संस्तुति आदेश स्वीकृति पत्र. Work order / LOI / Contract Order / Sanction Order acceptance letter.

b. श्रमिक लाइसेन्स, यदि लागू हो, तो प्राप्त करने के लिए प्रधान नियोक्ता प्रमाणपत्र (फॉर्म-III) जारी किए जाने के लिए आवेदन।

Application for issue of Principal Employer's Certificate (Form-III) for getting a Labour license, if applicable.

- c. BOCW अधिनियम तथा BOCW उपकर अधिनियम अधीन संविदाओं के लिए, संविदाकारों को स्वयं को उक्त अधिनियम से तहत पंजीकृत करवाना होगा। इस पंजीकरण की प्रति प्रभारी अभियंता को प्रस्तुत करनी होगी।

For the Contracts covered under BOCW Act and BOCW Cess Act, the contractor must get themselves registered under the Act. The copy of registration along with the shall be submitted to Engineer-in- Charge.

- d. प्रीमियम की रसीदों के साथ बीमा योजनाओं की मूल प्रतियाँ

Original Insurance Policies along with premium receipts

- i. संपूर्ण संविदा मूल्य (जीएसटी सहित) के लिए संविदाकार की सर्व जोखिम बीमा पॉलिसी जिसमें प्रयोज्यता के अनुसार संविदा मूल्य की 10% राशि के लिए तृतीय पक्ष देनदारी (Third Party Liability) के लिए बीमा भी सम्मिलित है।

Contractor's All Risk Insurance policy for the whole contract value (Including GST) including insurance for Third Party Liability for 10% of the contract value as per the applicability.

- ii. ESI योजना के अधीन व्यक्तियों के नाम इंगित करता ESI देस्तावेज अथवा वर्क मैन मुआवजा नीति अथवा प्रयोज्यता के अनुसार दोनों।

ESI document indicating the names of persons covered under the ESI scheme OR Workmen Compensation Policy OR both as per the applicability.

- e. संविदा की समान्य शर्तों के खंड सं. 4.2.3 के अनुसार कार्यनिष्पादन गारंटी

Performance guarantee as per clause 4.2.3 of General Conditions of Contract.

B) RA बिल के भुगतान के लिए For payment of the RA Bill,

संविदाकार प्रभारी अभियंता को प्रथम आरए बिल के साथ निम्नलिखित दस्तावेज प्रस्तुत करेगा:

The contractor shall submit the following documents along with first RA bill to EIC.

- a. श्रमिक लाइसेंस, जहां कहीं भी प्रयोज्य हो (केवल प्रथम आरए बिल के साथ)

Labour license wherever applicable (along with first RA Bill only).

- b. जीएसटी अधिनियम के अनुसार जीएसटी पंजीकरण की प्रति (केवल प्रथम आरए बिल के साथ)

GST registration Copy as per GST Act (along with first RA Bill only).

- c. जीएसटी के लिए घोषणा पत्र (अनुलग्नक-I) Declaration form for GST (Annexure-I)

- d. पिछले माह के GST कटौती के प्रमाण।

Proof of previous month GST remittance.

- e. प्रतिष्ठान के ईपीएफ पंजीकरण की प्रति के साथ कर्मचारियों की यूनिवर्सल EPFO खाता संख्या, जो KYC विवरण जैसे आधार संख्या, मोबाइल नंबर तथा बैंक खाता संख्या से लिंक हो (केवल प्रथम चालू खाता बिल के साथ)।

Copy of registration of EPF for firm along with the Universal EPFO account number (UAN) of all the employees, which shall be linked to KYC details such as Aadhaar number, Mobile number and bank account number (along with first RA Bill only).

- f. साझा प्रतिष्ठान के मामले में साझेदारी के देस्तावेज तथा कंपनी के मामले में प्रतिनिधि का मुख्तारनामा (केवल प्रथम आरए बिल के साथ)

Partnership deed of firm in case of partnership firm or power of attorney of the representative in case of company (along with first RA Bill only).

- g. भुगतान के लिए संविदाकार का बैंक खाते के विवरण (केवल प्रथम आरए बिल के साथ)

Bank account details of the contractor for payment (along with first RA Bill only).

- h. PAN कार्ड की प्रति (केवल प्रथम आरए बिल के साथ)

Copy of PAN card (along with first RA Bill only).

- i. प्रत्येक श्रमिक एवं संविदाकार द्वारा विधिवत हस्ताक्षरित यूनिफॉर्म वितरण का रिकॉर्ड। प्रपत्र अनुलग्नक-D के रूप में संलग्न है।

Record of uniform distribution duly signed by the Contractor and each of his workers. Proforma is enclosed as Annexure-D

- j. बिल की अवधि के लिए एनपीसीआईएल के प्रतिनिधि की उपस्थिति प्रमाणित मजदूरी भुगतान पंजिका की प्रति तथा बैंक अंतरण का विवरण।
Copy of wage register witnessed by NPCIL representative for the bill period and bank transfer details.
- k. मानव संसाधन द्वारा जारी मासिक मजदूरी भुगतान प्रमाणपत्र
Monthly wage certificate issued by HR.
- l. पिछले माह के EPF जमा के दस्तावेजी प्रमाण जिसमें प्रत्येक UAN का स्टेटमेंट दर्शाया गया हो।
Documentary proof of previous month EPF deposition showing statement for each UAN.
- m. ESIC पंजीकरण के विवरण की प्रति
Copy of ESIC registration details.
- n. तीन प्रतियों में टैक्स इन्वॉइस/ई-इन्वॉइस अथवा ई-इन्वॉइस का वचनपत्र
Tax invoice/e-invoice or undertaking of e-invoice in triplicate.
- o. पिछले माह की ESI जमा के दस्तावेजी प्रमाण के साथ श्रमिकवार कटौती का विवरण, यदि लागू हो।
Documentary proof of previous month ESI deposition including employee wise details of remittance, if applicable.
- p. पिछले माह के BOCW उपकर कटौती के लिए साक्ष्य, यदि लागू हों।
Proof of previous month BOCW Cess remittance if applicable.
- q. प्रधान मंत्री रोजगार प्रोत्साहन योजना (PMRPY) वचनबंध के लिए हस्ताक्षरित अनुलग्नक-एफ, यदि लागू हो (प्रथम आरए बिल के साथ)
Signed Annexure - F for Pradhan Mantri Rojgar Protsahan Yojana (PMRPY) Scheme undertaking if applicable (along with first RA Bill).

C) अंतिम बिल के भुगतान के लिए for payment of the Final Bill:

The following documents shall be submitted in addition to those required for RA bills: संविदाकार प्रभारी अभियंता को अंतिम बिल के साथ निम्नलिखित दस्तावेज प्रस्तुत करेगा:

- a. No claim declaration by the Contractor.
नो क्लेम डीक्लैरेशन.
- b. Indemnification by the Contractor regarding compliance of EPF & MP Act, 1952.
EPF & MP Act सम्बंधित दस्तावेज.
- c. No dues certificates if any.
कोई बकाया नहीं सम्बंधित फॉर्म.
- d. Signed Annexure- G for PMRPY Scheme undertaking.
प्रधान मंत्री रोजगार प्रोत्साहन योजना सम्बंधित फॉर्म.
- e. Indemnification by the Contractor regarding compliance of BOCW Act, 1996, if applicable.
- f. भवन निर्माण एवं दुसरे निर्माण सम्बंधित फॉर्म
- g. Wages certificate from HR section up to actual date of completion.
वेतन भुगतान का प्रमाण पत्र, अंतिम कार्य दिवस तक का.

D) Compliances by the bidders on statutory requirement:

a. RA Bill / Final Bill:

The Contractor will be continuously monitored and Running Account Bills/ Final Bill of the Contractor will be withheld if they fail to comply with statutory provisions as mentioned in the General Conditions of Contract or any other contract document. सभी प्रयुक्त सामान्य शर्तों की पालना हेतु ठेकेदार की निगरानी रहेगी. इनमे कोई भी कमी पाए जाने पर बिलों का भुगतान रोका जायेगा.

b. Release of Performance Bank Guarantee (PBG) / Security Deposit (SD):

Release of PBG & SD will be after the satisfactory completion of the Contract including all statutory compliances as certified by the Engineer-in-Charge. प्रभारी अभियंता द्वारा कार्य निष्पादन गारंटी एवं सुरक्षा जमा राशी ठेके की सभी मान्य जरूरतों को सुचारू रूप से पूरा होने पर देने का प्रावधान रहेगा.

6.0 संविदा मूल्य का समायोजन Contract Price Adjustment:

6.1 इस संविदा के लिए संविदा मूल्य के समायोजन की प्रयोज्यता जीसीसी के उपयुक्त नियम के अनुसार होगी।

Applicability of Contract Price Adjustment for this contract will be as per relevant clause of GCC.

7.0 मजदूरी एवं संविदा श्रमिक अधिनियम Wages & Contract Labour Act:

7.1 आपको संविदा की सामान्य शर्तों के खंड सं. 5.4 के संविदा श्रमिक अधिनियम (नियमन एवं उन्मूलन), 1970 विविध प्रावधानों तथा इसके पश्चात समय-समय पर बनाए गए नियमों की अनुपलना करनी होगी। यदि आपके संगठन पर संविदा श्रमिक अधिनियम, 1970 लागू नहीं होता है तो, इसके लिए आप कार्य प्रारंभ करने के पहले प्रभारी अभियंता को सूचित करेंगे।

You shall comply with various provisions of the Contract Labour (Regulations and Abolition) Act 1970 of GCC Clause No. 5.4 and rules framed thereafter from time to time. In case the Contract Labour Act 1970 does not apply to your organization, you shall intimate to the Engineer-In-Charge of this work before commencement of the work.

इसके अतिरिक्त आपको नीचे वर्णित अन्य सभी प्रावधानों की पालना करनी होगी:

Further, you shall also comply with the provisions of all other applicable laws such as:

a) कर्मचारी राज्य बीमा (ईएसआई) अधिनियम-1948 अथवा वर्क मैन मुआवजा नीति (यदि सभी अथवा कुछ श्रमिक कर्मचारी राज्य बीमा अधिनियम-1948 के तहत पात्र नहीं होते हैं तो सभी/शेष वर्क मैन के लिए श्रमिक मुआवजा नीति की आवश्यकता होगी। अर्हता निर्धारित करने के लिए भारत सरकार द्वारा अधिनियम के तहत जारी अधिसूचना का संदर्भ लिया जाए)

Employees State Insurance (ESI) Act-1948 Or Workman Compensation Policy (if all or some of the workers are not covered under the Employees State Insurance Act, 1948, the Workman Compensation Policy will be required for all / remaining workmen/employees. Notification issued by Govt. of India under the Act may be referred for deciding the eligibility).

b) मजदूरी भुगतान अधिनियम The Payment of Wages Act-1936.

c) न्यूनतम मजदूरी अधिनियम The Minimum Wages Act-1948.

d) कर्मचारी भविष्य निधि एवं विविध प्रावधान अधिनियम-1952

The Employee's Provident Fund and Miscellaneous Provision Act-1952.

e) उपदान का भुगतान अधिनियम Payment of Gratuity Act-1972

f) भवन तथा अन्य निर्माण श्रमिक (नियोजन का नियमन एवं सेवा शर्तें) अधिनियम-1996 (यदि प्रयोज्य हो)

The Building and Other Construction Workers (Regulation of Employment and Conditions of Services) Act-1996 (if applicable).

g) अन्य प्रयोज्य श्रम कानून जो प्रधान नियोक्ता के रूप में किसी प्रकार के व्यय का उत्तरदायित्व प्रदान करते हैं। ऐसी किसी परिस्थिति के उत्पन्न होने पर, एनपीसीआईएल के पास आपसे/आपके बिलों से उनकी वसूली करने का अधिकार है।

Other applicable labour laws which attract any liability to incur any expenditure as Principal Employer. If such situation arises, NPCIL is entitled to recover the same from you/your bills.

7.2 यदि इस कार्य के लिए 19 से अधिक श्रमिक नियोजित किए जाने हैं तो आपको प्रधान नियोक्ता का प्रमाणपत्र प्रपट करने के लिए अनुरोध करना होगा। कृपया ध्यान दें कि इस कार्य आदेश के जारी होने के 15 दिनों के भीतर आपको इस कार्य में नियोजित किए जाने वाले अधिकतम श्रमिकों के लिए क्षेत्र के सहायक श्रम आयुक्त के पास श्रम अनुज्ञापत्र के लिए आवेदन करना होगा। आप संबंधित प्राधिकारियों से एक मान्य श्रम अनुज्ञापत्र प्राप्त किया जाना सुनिश्चित करेंगे तथा इस कार्य आदेश में 20 अथवा अधिक श्रमिक नियोजित करने से पूर्व प्रभारी अभियंता को श्रम अनुज्ञापत्र प्रस्तुत करेंगे।

You will have to give request of Principal Employer's Certificate for obtaining labour license, if more than 19 numbers of workman are proposed to be employed for this work. Please note that, you have to apply for a labour license in the office of Assistant Labour Commissioner of the area within 15 days from the date of issue of this work order for maximum number of workers you have

indicated to engage on the work. You shall ensure to obtain a valid labour license from the concerned authorities and submit labour license to Engineer-In-Charge before engagement of 20 or more workers in work order.

- 7.3 संविदाकार को अपने सभी श्रमिकों को आगे आने वाले माह के 7वें दिन अथवा उसके पहले बैंक के माध्यम से मजदूरी का भुगतान करना होगा, अन्यथा एससीसी के भाग-I के श्रेणी I से श्रेणी IV के खंड सं. 19 के अनुसार दंड अधिरोपित किया जाएगा। संविदा श्रमिकों को राशि के अंतरण वाली बैंक द्वारा जारी बैंक स्टेटमेंट/ऑन लाइन द्वारा सृजित बैंक स्टेटमेंट निविदा दस्तावेज के भाग-III के लागू खंड के अनुसार कार्य प्रभारी अभियंता को प्रस्तुत की जानी चाहिए।

The contractor shall make the payment to all its labour on or before 7th day of succeeding month through bank, failing which penalty shall be imposed at the rate of as per Clause no. 19 category I to Category IV Part-I of SCC. Bank statement issued by bank/online system Generated Bank Statement having transferred the amount to the contract workers should be submitted to EIC of the work as per relevant clause of Section-III of Tender Documents.

- 7.4 संविदाकार को बोनस भुगतान अधिनियम, 1965 में उल्लिखित एवं निविदा दस्तावेज में एससीसी के संबंधित खंड के अनुसार बोनस का भुगतान करना होगा।

The contractor shall have to make payment of Bonus as prescribed under the Payment of Bonus Act-1965 & as per relevant clause of SCC in Tender Documents.

- 7.5 निविदा दस्तावेज के एससीसी के संबंधित खंड के अनुसार कार्य प्रभारी अभियंता के पास ईएसआई में अंशदान के दस्तावेजी प्रमाण प्रस्तुत करने होंगे।

Document evidence of ESI contribution is to be submitted to EIC of work. As per relevant clause of SCC in Tender Documents.

8.0 कार्य का निष्पादन Execution of work:

कार्य को निविदा में उल्लिखित निबंधनों, शर्तों एवं विनिर्देशनों की सख्ती से अनुपालना करते हुए सर्वश्रेष्ठ कार्य निष्पादन के रूप में निष्पादित किया जाना चाहिए। आपको निविदा दस्तावेज में उल्लिखित अनुभाग की विशेष आवश्यकता (यदि कोई हों) के अनुसार पात्र अभियंताओं/पर्यवेक्षकों की नियुक्ति करनी होगी तथा उन्हें बनाए रखना होगा। कार्य को संतोषजनक रूप से पूर्ण करने के लिए आप साइट एवं कार्य स्थल पर सभी आवश्यक मशीनरी तथा उपकरण एवं अन्य समग्रियाँ लाएंगे।

The work shall be carried out strictly in accordance with the terms, conditions and specifications stipulated in the tender and also in best workman like manner. You shall employ and maintain qualified engineers/supervisors as per Sectional Special Condition of Tender Documents (if any). You shall also bring to the site and place such machinery and equipments & other materials as are necessary for the satisfactory completion of work.

9.0 प्रभारी अभियंता Engineer-In-Charge:

श्री कोसुर पंचला प्रसाद, तक. अधि. 'एफ' (सिविल) आरएपीपी -7&8 इस कार्य के प्रभारी अभियंता होंगे। आप प्रभारी अभियंता से परामर्श के उपरांत तत्काल कार्य आरम्भ हेतु आवश्यक व्यवस्थाएं करेंगे।

Shri KP Prasad, TO/F (Civil) RAPP-7&8 will be the Engineer-in-charge of this work. You may make necessary arrangement for commencing the work immediately in consultation with Engineer-In-Charge.

- 10.0 आपसे आपके प्राधिकृत प्रतिनिधि के नाम सूचित करने का अनुरोध किया जाता है जो कि संविदा से जुड़े समस्त मामलों पर कार्य करेंगे एवं समुचित मूल्य के स्टाम्प पेपर पर विधिवत रूप से उनके नाम तैयार किया गया मुख्तारनामा प्रस्तुत करना होगा।

You are requested to inform the name of your authorized representative who will deal with all matters relating to the contract and the Power of Attorney in his favour duly executed on stamped paper of an appropriate value shall be furnished.

- 11.0 संविदा के निष्पादन के दौरान एवं पूर्णता प्रमाण पत्र जारी किए जाने तक आप सर्व संबंधित को तृतीय पक्ष देयता सहित कार्य, संरचना, संपत्ति आदि को आपके कारण होने वाले किसी नुकसान, टूट-फूट अथवा कार्य में

तोड़-फोड़ की क्षतिपूर्ति करने के लिए पूरी तरह से उत्तरदायी होंगे, जिसका निर्धारण प्रभारी अभियंता द्वारा किया किया जाएगा तथा इस संबंध में उनका निर्णय अंतिम होगा।

During the execution of the contract and until completion certificate is issued, you will be fully liable to compensate all concerned for any loss, damage or destruction of work, structure, property etc. including third party risk arising due to causes attributable to you which will be decided by the Engineer-in-Charge, whose decision in this regard will be final.

12.0 संरक्षा एवं साफ-सफाई Safety & Housekeeping:

संविदाकार को संविदा की सामान्य शर्तों के खंड सं. 5.6 तथा 21-प.ऊ.नि.बो. संरक्षा मार्गदर्शन के अनुसार सभी संरक्षा नियमों एवं विनियमों की अनुपालना करनी होगी। संविदाकार निविदा दस्तावेज के संबंधित खंडों एवं प्रक्रियाविधियों के अनुसार सभी संरक्षा एहतियातों, संरक्षा प्रशिक्षणों, संरक्षा अनुमतियों (औद्योगिक एवं रेडियोलॉजिकल) अनुपालना एवं क्रियान्वयन तथा संबन्धित कार्य क्षेत्र की उचित साफ-सफाई के लिए उत्तरदायी होगा।

Contractor has to comply all the safety rules & regulations as per GCC clause No. 5.6 and 21- AERB Safety guide. Contractor shall be responsible for the observance & implementation of all safety precautions, Safety Trainings, Safety permissions (Industrial / Radiological) and proper housekeeping of the respective working area as per procedures and as per relevant Clauses of Tender document.

13.0 करार Agreement:

अनुरोध है कि इस कार्यदेश के जारी होने के 30 दिनों के अन्दर करार तैयार करवाने के लिए ₹ 500/- का गैर न्यायिक स्टैम्प पेपर संविदा एवं सामाग्री प्रबंधन (वर्क्स समूह) में प्रस्तुत करने का कष्ट करें। इस कार्यदेश के जारी होने की तिथि अथवा प्रथम चालू बिल के जारी होने की तिथि, जो भी पहले हो, के 60 दिवसों के भीतर एनपीसीआईएल एवं मे. मधुसूदन इंजीनियरिंग कंपनी के मध्य समस्त निबंधन एवं शर्तों को समाहित करते हुए एक औपचारिक करार निष्पादित किया जाएगा। औपचारिक समझौता निष्पादित किए जाने तक निविदा दस्तावेज में वर्णित निबंधन एवं शर्तों को कार्य आबंधित किए जाने तक हुए समस्त पत्राचार की विषयवस्तु के साथ पढ़ी जाएं एवं इस कार्यदेश की विषयवस्तु एनपीसीआईएल एवं मे. मधुसूदन इंजीनियरिंग कंपनी के मध्य बाध्यकारी संविदा बनेगी।

It is requested to submit a Non-Judicial Stamp paper of ₹ 500/- to Contract & Material Management (Works Group) office for preparation of agreement within 30 days of issue of this work order to prepare a formal agreement between NPCIL & M/s MADHUSUDAN ENGINEERING CO. within 60 days from the date of issue of this work order or release of 1st RA bill, whichever is earlier. Till formal agreement is executed, the terms and conditions stipulated in the tender document read along with the contents of all correspondences exchanged till the award of work and the contents of this work order shall form a binding contract between NPCIL & M/s MADHUSUDAN ENGINEERING CO.

14.0 सामान्य General :

- 14.1 संविदा अवधि के दौरान किसी विवाद/शंका, जो कुछ भी होने पर, संविदाकार एवं एनपीसीआईएल के मध्य निविदा की सामान्य शर्तें बाध्यकारी होंगी। यह कार्यदेश संविदा की सामान्य शर्तों(जीसीसी) के खंडों द्वारा अधिशासित होंगे। अन्य समस्त निबंधन एवं शर्तें निविदा दस्तावेज के अनुसार प्रयोज्य होंगी।

In case of any dispute/ confusion whatsoever it may be during the contract period, General Conditions of Contract of Tender shall be binding between the contractor and NPCIL. This work order will be governed by the clauses of the General condition of contract (GCC). All other terms and conditions will be applicable as per tender document.

- 14.2 शास्तियों का जहाँ भी उल्लेख है, उनमें GST अधिरोपित होगा। देय शास्ति राशि पर GST अलग से प्रभारित किया जाएगा। प्रचलित GST दरें लागू रहेंगी।

Penalties wherever mentioned are excluding GST. GST will be charged extra over levied penalty amount. GST will be charged as per applicable laws.

15.0 आपसे इस कार्यादेश की पावती एवं स्वीकृति देने तथा प्रभारी अभियंता से परामर्श कर अनुसूची के अनुसार कार्य आरंभ करने का अनुरोध किया जाता है।

You are requested to acknowledge the receipt & acceptance of this work order and commence the work as per schedule in consultation with the Engineer-in-charge.

धन्यवाद Thanking you,

संलग्न: मात्राओं एवं दरों की अनुची (अनुलग्नक-1)

Encl: Schedule of Quantities & Rates (Annexure-I)


(सत्येंद्र कुमार चौरसिया S.K. Chourasia)

अपर मुख्य अभियंता(सिविल) ACE(C), RRS-7&8

न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड के लिए एवं की ओर से

For & on behalf of the Nuclear Power Corporation of India Limited

NUCLEAR POWER CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

Rawatbhata Rajasthan Site

Schedule Of Quantities And Rates



Print Date: 15-Jan-2025

CoManas

Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
Schedule : CIVIL MAINTENANCE:NA						
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	10000	10		1,00,000
				Rupees Ten Only		
2	Surface Excavation: Earth work in surface excavation not exceeding 30cm in depth but exceeding 1.5 m in width as well as 10 Sqm on plan including disposal of excavated earth up to 1.0 KM and lift up to 1.5 m, disposed soil to be leveled and neatly dressed etc. completed and disposing off the surplus materials to a maximum lead of 1.0 KM. radius as per drawings, specifications and as directed by the Engineer.	Sqm	12775	70		8,94,250
				Rupees Seventy Only		
3	EXCAVATION: Earth work in excavation by mechanical means without blasting (Hydraulic excavator)/manual means or with blasting over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) for general areas, foundations of buildings and walls, roads, drainages, etc. including getting out and disposal of excavated earth lead up to 50 m and lift up to 1.5m, as directed by Engineer-in-charge.					
3.01	Up to 1.50 m depth from the average existing ground level with out Blasting	Cum	2050	1117		22,89,850
				Rupees One Thousand One Hundreds Seventeen Only		
3.02	Up to 1.50 m depth from the average existing ground level with Blasting	Cum	125	900		1,12,500
				Rupees Nine Hundreds Only		
4	Extra over item No.3 (3.1 & 3.2) for every additional lift of 1.5m part thereof in ordinary rock/ hard rock.	Cum	302.5	300		90,750
				Rupees Three Hundreds Only		
5	Excavating trenches of required width in ordinary rock/Hard rock (blasting prohibited) for pipes, cables, etc., including excavation for sockets, depth up to 1.5 m, including getting out the excavated materials, returning the rock as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :					
5.01	Pipes, cables etc., not exceeding 80 mm dia.	Rmt	520	650		3,38,000
				Rupees Six Hundreds Fifty Only		
5.02	Pipes, cables etc., exceeding 80 mm dia. but not exceeding 300mm dia	Rmt	170	900		1,53,000
				Rupees Nine Hundreds Only		
5.03	Pipes, cables etc., exceeding 300 mm dia. but not exceeding 600mm dia	Rmt	300	1200		3,60,000
				Rupees One Thousand Two Hundreds Only		
6	BACKFILLING: Backfilling at all levels for road works, sides of foundations, trenches, and other low lying area with following excavated materials including cost of breaking/ crushing the same to required size, consolidation in layers, all complete as per drawings, specifications and as directed by Engineer-in-charge.					
6.01	From stockpiles of excavated rock/ soil within a lead of 1500 m.	Cum	395	400		1,58,000
				Rupees Four Hundreds Only		
7	Extra over item no. 6 above for every additional lead of 500 m or part thereof.	Cum	2370	50		1,18,500
				Rupees Fifty Only		
8	GOOD EARTH: Supplying at site of good quality earth /morrum/ gravel excavated and brought from outside (borrow pits/ stock piles), free from weeds, roots, pebbles, rubble, boulders more than 150mm in size and other foreign material, including royalty & carriage, and filling earth (excluding rocks) in trenches, plinth, and sides of foundation, etc., in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming & watering, for lift up to 1.5 m, etc., all complete with safety and as per drawings, specifications and as directed by Engineer-in-charge. Note: Only consolidated fill volume shall be measured and paid.	Cum	7917	830		65,71,110
				Rupees Eight Hundreds Thirty Only		
9	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidation & dressing complete.	Cum	650	1350		8,77,500
				Rupees One Thousand Three Hundreds Fifty Only		
10	FILCRETE: Design, supply and place filcrete of pumpable consistency for backfilling below ground level and encasing, with cement, sand, and fly ash mix of M-5 grade inclusive of all materials, tools, formwork, plants, etc., all complete as per drawings, specifications and as directed by Engineer-in-charge. Note: No recovery shall be made against use of deparmantal stone for this item.	Cum	50	3500		1,75,000
				Rupees Three Thousand Five Hundreds Only		
11	Supplying of anti termite chemical / emulsion in sealed containers as specified Chlorpyrifos emulsifiable concentration of 20% IS mark and deposited in civil store along with voucher.	Litre	200	250		50,000
				Rupees Two Hundreds Fifty Only		
12	Anti termite Treatment : Transporting the anti termite chemical from the civil store and providing anti termite treatment with 1% aqua's emulsion of chloropyrifos 20% EC for the bottom and sides of foundation and trenches etc., the back fill in immediate contact with foundation, the top surface of filled up earth inside the plinth, the junctions of walls and plinth, the junctions of floors and walls and the soil along external perimeter of building as per direction of the Engineer-in-Charge. To make 1% aqua's emulsion adds 19 liters of water in one chloropyrifos 20% EC. (The plinth area of building shall be measured for payment purpose). Note: The empty containers to be disposed/buried as per relevant standard procedure and as directed by Engineer In charge.	Sqm	2000	80		1,60,000
				Rupees Eighty Only		
13	Providing and laying Thermo-Mechanically Treated reinforcement bars of grade Fe-500D or more or as specified in drawings/specifications and as directed by engineer conforming to IS : 1786 latest revision or the latest relevant code for RCC work including straightening, cutting, bending, placing in position and binding with 20 gauge annealed binding wire and cement mortar cover block of all size in C.M. 1:2 MIX etc. all complete at all levels- as per drawings , specifications & direction of engineer in charge. Notes: 1. Chairs, Spacers, supports and approved laps which are embedded in the concrete shall be measured and paid in this item. 2. Reinforcement steel used for formwork and its supports shall not be paid.	Kg	150000	83		1,24,50,000
				Rupees Eighty Three Only		



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.

WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
				Rate in Words		
14	Providing and laying in position site batched design mix cement concrete for PCC(plain cement concrete)/RCC (reinforced cement concrete) work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion					
14.01	All works upto plinth level					
14.1.1	Concrete of M15 grade with minimum cement content of 240 kg /cum	Cum	440	6150		27,06,000 Rupees Six Thousand One Hundreds Fifty Only
14.1.2	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	20	6400		1,28,000 Rupees Six Thousand Four Hundreds Only
14.1.3	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	395	6500		25,67,500 Rupees Six Thousand Five Hundreds Only
14.1.4	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	5	7200		36,000 Rupees Seven Thousand Two Hundreds Only
14.1.5	Concrete of M35 grade with minimum cement content of 370 kg /cum	Cum	5	7500		37,500 Rupees Seven Thousand Five Hundreds Only
14.02	All works above plinth level upto floor V level					
14.2.1	Concrete of M15 grade with minimum cement content of 240 kg /cum	Cum	115	6400		7,36,000 Rupees Six Thousand Four Hundreds Only
14.2.2	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	5	6700		33,500 Rupees Six Thousand Seven Hundreds Only
14.2.3	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	950	6800		64,60,000 Rupees Six Thousand Eight Hundreds Only
14.2.4	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	5	6988		34,940 Rupees Six Thousand Nine Hundreds Eighty Eight Only
14.2.5	Concrete of M35 grade with minimum cement content of 370 kg /cum	Cum	5	7000		35,000 Rupees Seven Thousand Only
15	Form Work : Providing form work of battened frame with sheathing having plywood lining / MS angle frame with sheathing of MS plate lining so as to give fair finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor not exceeding 3.5 meters to ceilings and removal of same for foundation, footings, columns, wall, Suspended floors, stairs, landings, balconies, lintels, beams, plinth beams, girders, cantilevers and access platform, roads etc. complete at all level of floors / roof as per specifications and direction of Engineer in charge.	Sqm	9600	600		57,60,000 Rupees Six Hundreds Only
16	Extra for additional height in centering, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part there of (Plan area to be measured).	Sqm	2400	250		6,00,000 Rupees Two Hundreds Fifty Only
17	Supply & Providing 40 mm thick precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.	Sqm	50	1000		50,000 Rupees One Thousand Only
18	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	170	800		1,36,000 Rupees Eight Hundreds Only
19	BRICK MASONRY: Providing and laying Fly-ash brick masonry class designation- 75 (IS-12894 -latest revision) in cement mortar 1:6 (1 cement : 6 coarse sand) upto plinth level including cost of labour, materials, curing, finishing, scaffoldings etc. all complete as per drawings, specifications and direction of Engineer in charge.	Cum	70	5500		3,85,000 Rupees Five Thousand Five Hundreds Only
20	BRICK MASONRY: Providing and laying Fly-ash brick masonry using Fly-ash building bricks of class designation- 75 (IS-12894 -latest revision) in cement mortar 1:6 (1 cement : 6 coarse sand) in superstructure above plinth level up to floor five level as per specifications and direction of Engineer including cost of labour, materials, curing, finishing, scaffoldings etc. all complete as per drawings, specifications and direction of Engineer-in-charge.	Cum	70	6000		4,20,000 Rupees Six Thousand Only
21	Half Brick Masonry: Providing and laying half brick masonry using fly ash bricks of class designation-75 (IS-12894 - latest revision) in cement mortar 1:4 (1 cement : 4 coarse sand) with RCC 1:2:4 (1 Cement : 2 Coarse sand : 4 graded stone aggregate 20 mm nominal size) stiffeners 75 mm thick horizontally @ 1000mm c/c excluding cost of laying reinforcement but including cost of RCC stiffeners in superstructure above plinth level upto floor five level including cost of labour, materials, curing, finishing, scaffoldings, shuttering etc. all complete as per specifications and direction of Engineer in charge. Note - Reinforcement bars to be paid in relevant item.	Sqm	920	700		6,44,000 Rupees Seven Hundreds Only
22	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Rmt	175	45		7,875 Rupees Forty Five Only
23	AAC Block:Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	Cum	600	6500		39,00,000 Rupees Six Thousand Five Hundreds Only
24	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :	Cum	250	3300		8,25,000 Rupees Three Thousand Three Hundreds Only
25	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.	Cum	600	4300		25,80,000 Rupees Four Thousand Three Hundreds Only

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
26	External Plastering : Providing and laying 18 mm thick cement plaster in two coats under layer 12 mm thick cement plaster 1:4 (1 cement : 4 fine sand) finished with a top layer 6mm thick cement plaster 1:4 (1 cement : 4 fine sand) on either side of single or half brick masonry walls for exterior plastering at all height and using galvanized M.S. wire of I.S. gauge designation 26 S.W.G. chicken mesh over junctions of brick work, beams and column as required including necessary grooves at the junction of RCC and brick work, arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth including scaffolding, finishing, curing etc. all complete as per specifications and direction of engineer.	Sqm	3700	450		16,65,000
						Rupees Four Hundreds Fifty Only
27	Internal Plastering: Providing and laying 15mm thick cement plaster 1:4 (1 cement : 4 fine sand) in single coat on either side of single or half brick wall for interior plastering at all levels using galvanized M.S. wire of I.S. gauge designation 26 s.w.g. chicken mesh over junctions of brick work, beams and column as required including necessary grooves at the junction of RCC and brick work, arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth including scaffolding, finishing, curing etc. all complete as per specifications and direction of engineer.	Sqm	5000	380		19,00,000
						Rupees Three Hundreds Eighty Only
28	Ceiling Plastering : Providing and laying 6mm thick cement plaster (1 cement : 3 sand) in single coat on RCC ceiling face for interior plastering at all levels including necessary grooves at the junction of RCC and brickwork arises, internal rounded angle, chamfers and / or rounded angles not exceeding 80 mm in girth including scaffoldings, finishing, curing etc. all complete as per specifications and direction of engineer.	Sqm	3400	300		10,20,000
						Rupees Three Hundreds Only
29	External Painting :Supplying and applying weather proof exterior emulsion paint of make Asian paint apex (code 0012) / Nerolac excel / Weather coat smooth of Berger as approved of required shade on New work Two coats including base coat of exterior wall primer of make Asian exterior wall primer (0065) / Nerolac exterior primer / Weather coat exterior primer of Berger as approved after cleaning / scrubbing of the surfaces with wire brushes, soft brushes, sand papers, steel sheet scrappers and mechanical grinder etc. for removing all kind of burrs, imperfections, undulations and other such defects existing in the surface including filling surface imperfections such as holes, dents, cracks by using mixture of white cement & fine sand (in the ratio of 1:3) to achieve plain & even surface. The item rate include spreading of suitable clean protection covering on all exposed surfaces to protect them from staining. All surfaces surrounding to painted area such as window / ventilator frames, glass pans etc. shall be cleaned to sparkling clean condition using suitable thinners, detergents, chemical cleaners etc. under the scope of the item. including the cost of materials, labour etc. all complete as per specification & direction of Engineer-in-Charge. Note:- Painting to be taken up after attending all seepage / leakage problem. No peel off of paint & seepage spots shall be allowed.	Sqm	2500	180		4,50,000
						Rupees One Hundreds Eighty Only
30	Internal Painting :Supply and applying premium emulsion paint of make Asian paint premium emulsion (product code 011) / Nerolac Beauty gold / Rangoli fashion finish of Berger as approved to give an even shade: - Two coats on new work including priming coat with approved cement primer of make Asian Deco prime wall primer (0360) / Nerolac water thinnable cement primer / BP cement primer water thinnable of Berger as approved after cleaning / scrubbing of the surfaces with wire brushes, soft brushes, sand papers, steel sheet scrappers and mechanical grinder etc. for removing all kind of burrs, imperfections, undulations and other such defects existing in the surface to achieve plain & even surface. The item rate include spreading of suitable clean protection covering on all exposed surfaces to protect them from staining. All surfaces surrounding to painted area such as door & window frames, glass pans, electrical fittings, switch board, floors, skirting, platform etc. shall be cleaned to sparkling clean condition using suitable thinners, detergents, chemical cleaners etc. under the scope of the item. including the cost of materials, labour etc. all complete as per specification & direction of Engineer-in-Charge. Note:- Painting to be takenup after attending all seepage / leakage problem. No peel off of paint & seepage spots shall be allowed.	Sqm	8400	150		12,60,000
						Rupees One Hundreds Fifty Only
31	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
31.01	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	410	200		82,000
						Rupees Two Hundreds Only
32	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	8400	100		8,40,000
						Rupees One Hundreds Only
33	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	150	800		1,20,000
						Rupees Eight Hundreds Only
34	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	125	900		1,12,500
						Rupees Nine Hundreds Only
35	Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand).	Sqm	100	1100		1,10,000
						Rupees One Thousand One Hundreds Only
36	Tile work with 8m thick polished marble tiles(Rajnagar) in skirting, risers of steps and dado up to 2 m height over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	75	1150		86,250
						Rupees One Thousand One Hundreds Fifty Only
37	25 mm thick Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand).	Sqm	750	900		6,75,000
						Rupees Nine Hundreds Only
38	40 mm thick fine dressed red sand stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.	Sqm	100	1200		1,20,000
						Rupees One Thousand Two Hundreds Only
39	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Rmt	75	100		7,500
						Rupees One Hundreds Only
40	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre .	Sqm	100	58		5,800
						Rupees Fifty Eight Only
41	Providing and fixing 1st quality ceramic glazed floor tiles of min. thickness 9mm conforming to IS : 15622 of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	100	1000		1,00,000
						Rupees One Thousand Only
42	Providing and laying vitrified floor tiles of size (600mmx600mm) of min. thickness 9mm with water absorption less than 0.08% Band conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	Sqm	1800	900		16,20,000
						Rupees Nine Hundreds Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.

WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
43	Providing and laying Vitrified tiles of size (600mmx600mm) of min. thickness 9mm, with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, cladding for walls laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).	Sqm	450	1000		4,50,000
				Rupees One Thousand Only		
44	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design, fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge.	Sqm	50	2000		1,00,000
				Rupees Two Thousand Only		
45	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	Sqm	250	2300		5,75,000
				Rupees Two Thousand Three Hundreds Only		
46	Providing and fixing 2nd class teak wood panelled or panelled and glazed shutters of thickness 35mm for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- rate inclusive of Butt hinges and necessary screws)	Sqm	8	4000		32,000
				Rupees Four Thousand Only		
47	Providing and fixing fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading in Panelled door.	Sqm	5	1400		7,000
				Rupees One Thousand Four Hundreds Only		
48	Providing and fixing ISI marked 35mm thick flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters, rate including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	120	3000		3,60,000
				Rupees Three Thousand Only		
49	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	125	500		62,500
				Rupees Five Hundreds Only		
50	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer, screws/ welding etc... all complete as per drawing and as directed by Engineer-in-charge.	Kg	4000	125		5,00,000
				Rupees One Hundreds Twenty Five Only		
51	Providing and fixing aluminium sliding door bolts of size 300x16mm, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete.	Each	60	470		28,200
				Rupees Four Hundreds Seventy Only		
52	Providing and fixing aluminium tower bolts of size 250x10mm, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.	Each	100	86		8,600
				Rupees Eighty Six Only		
53	Providing and fixing aluminium handles of size 125mm long, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.	Each	100	130		13,000
				Rupees One Hundreds Thirty Only		
54	Providing and fixing aluminium hanging floor door stopper (single rubber stopper) ISI marked anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with necessary screws etc. complete.	Each	60	100		6,000
				Rupees One Hundreds Only		
55	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Each	50	600		30,000
				Rupees Six Hundreds Only		
56	Providing and fixing to existing door frames: 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	Sqm	25	3500		87,500
				Rupees Three Thousand Five Hundreds Only		
57	Providing & Fixing 1mm thick decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.	Sqm	225	1000		2,25,000
				Rupees One Thousand Only		
58	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.	Sqm	5	7000		35,000
				Rupees Seven Thousand Only		
59	Providing and fixing pressed steel door frames of C profile conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge.	Rmt	350	650		2,27,500
				Rupees Six Hundreds Fifty Only		
60	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	Sqm	15	4000		60,000
				Rupees Four Thousand Only		
61	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	Rmt	45	400		18,000
				Rupees Four Hundreds Only		
62	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	10	750		7,500
				Rupees Seven Hundreds Fifty Only		
63	Providing 50x50x50mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc.	Each	25	30		750
				Rupees Thirty Only		
64	Providing and fixing 9mm thick 1st quality ceramic glazed wall tiles (600mmX600mm) conforming to IS: 15622 , of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	250	1000		2,50,000
				Rupees One Thousand Only		



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
Rate In Words						
65	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design.	Rmt	400	200		80,000
						Rupees Two Hundreds Only
66	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	40	200		8,000
						Rupees Two Hundreds Only
67	Providing and fixing on wall face 110mm dia. unplasticised Rigid PVC rainwater pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.(I)single socketed pipes.	Rmt	200	350		70,000
						Rupees Three Hundreds Fifty Only
68	Providing and fixing on wall face unplasticised PVC moulded fitting accessories for unplasticised Rigid PVC rain water pipes conforming to IS-13592 type A including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
68.01	Coupler dia 110 mm	Each	25	120		3,000
						Rupees One Hundreds Twenty Only
68.02	Single tee with door (110x110x110 mm)	Each	20	250		5,000
						Rupees Two Hundreds Fifty Only
68.03	Bend 87.5 degree(110 mm)	Each	20	173		3,460
						Rupees One Hundreds Seventy Three Only
68.04	Shoes (plain , dia 110 mm)	Each	20	120		2,400
						Rupees One Hundreds Twenty Only
69	Providing and fixing unplasticised -PVC pipe (110mm dia.) clips for of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.	Each	200	350		70,000
						Rupees Three Hundreds Fifty Only
70	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	20	40		800
						Rupees Forty Only
71	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S sheets and galvanised with zinc coating of 120gm/sqm. (both side inclusive) as per IS : 277 and consisting of angles cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angles hangers of 25x10x0.5 mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45x15x0.9 mm running at a spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedges of 80 mm with tapered flange of 26mm each having lips of 10.5mm, at 450 mm centre to centre, shall be fixed in the direction perpendicular to G.I intermediate channel with connecting lips made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing parameter channels 0.5mm thick 27mm high					
71.01	12.5mm thick tapered edge gypsum plain board conforming to IS : 2095- (Part I) :2011 (Board with BIS certification marks)	Sqm	100	1350		1,35,000
						Rupees One Thousand Three Hundreds Fifty Only
72	Providing and fixing tiled false ceiling of specified material of size 595x595mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanised steel sections (galvanised @120gm/sqm. both side inclusive) consisting of main "T" runner with suitable spaced joints to get required length and of size 24x38mm made of 0.30mm thick sheet spaced at 1200 mm long spaced between main "T" of 24x25mm made of 0.30mm thick sheet, centre to centre, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angles hangers of 25x10x0.5 mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45x15x0.9 mm running at a spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedges of 80 mm with tapered flange of 26mm each having lips of 10.5mm, at 450 mm centre to centre, shall be fixed in the direction perpendicular to G.I intermediate channel with connecting lips made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing parameter channels 0.5mm thick 27mm high. 8mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fibre manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/sq cm., Bending Strength 100 kg/sq cm. of size 595x595mm, having perforation of dia. 10mm with minimum perforated area 18% with non woven tissue on back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50mm thick rockwool of 48 kg.cum backing.	Sqm	100	1500		1,50,000
						Rupees One Thousand Five Hundreds Only
73	Neat cement punning for walls, ceiling, roof, shelves, etc.	Sqm	40	60		2,400
						Rupees Sixty Only
74	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, milled and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately). For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	2000	550		11,00,000
						Rupees Five Hundreds Fifty Only
75	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	3100	580		17,98,000
						Rupees Five Hundreds Eighty Only
76	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item).					
76.01	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm) (for UPVC Windows)	Sqm	300	1150		3,45,000
						Rupees One Thousand One Hundreds Fifty Only
77	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge.					
77.01	Upto 5mm depth and 5 mm width	Rmt	700	80		56,000
						Rupees Eighty Only



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WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
Rate in Words						
78	Providing and fixing water closet squatting pan (Indian type W.C. pan of size 580x440 mm with integral type foot rests) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required. White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	5	900		4,500
				Rupees Nine Hundreds Only		
79	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan with ISI marked white solid plastic seat and lid) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required. W.C. pan with ISI marked white solid plastic seat and lid	Each	10	8805		88,050
				Rupees Eight Thousand Eight Hundreds Five Only		
80	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin (with 5 litre white P.V.C.) of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	10	5500		55,000
				Rupees Five Thousand Five Hundreds Only		
81	Providing and fixing wash basin of size 550x400 mm with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required. (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	8	4000		32,000
				Rupees Four Thousand Only		
82	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink (610x510 mm bowl depth 200 mm) as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required. Kitchen sink without drain board	Each	2	4500		9,000
				Rupees Four Thousand Five Hundreds Only		
83	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer-in-charge.	Each	10	400		4,000
				Rupees Four Hundreds Only		
84	Providing and fixing P.V.C. waste pipe(flexible) for sink or wash basin including P.V.C. waste fittings complete.					
84.01	32 mm dia	Rmt	17	140		2,380
				Rupees One Hundreds Forty Only		
84.02	40 mm dia	Rmt	12	146		1,752
				Rupees One Hundreds Forty Six Only		
85	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	15	300		4,500
				Rupees Three Hundreds Only		
86	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	Each	11	40		440
				Rupees Forty Only		
87	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	16	1100		17,600
				Rupees One Thousand One Hundreds Only		
88	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	10	150		1,500
				Rupees One Hundreds Fifty Only		
89	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in- Charge.					
89.01	15 mm nominal outer dia Pipes	Rmt	100	250		25,000
				Rupees Two Hundreds Fifty Only		
89.02	20 mm nominal outer dia Pipes	Rmt	85	320		27,200
				Rupees Three Hundreds Twenty Only		
89.03	25 mm nominal outer dia Pipes	Rmt	210	455		95,550
				Rupees Four Hundreds Fifty Five Only		
89.04	32 mm nominal outer dia Pipes	Rmt	325	500		1,62,500
				Rupees Five Hundreds Only		
89.05	40 mm nominal outer dia Pipes	Rmt	225	560		1,26,000
				Rupees Five Hundreds Sixty Only		
89.06	50 mm nominal outer dia Pipes	Rmt	75	720		54,000
				Rupees Seven Hundreds Twenty Only		
90	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the walls etc.					
90.01	15 mm nominal outer dia Pipes	Rmt	400	280		1,12,000
				Rupees Two Hundreds Eighty Only		
90.02	20 mm nominal outer dia Pipes	Rmt	220	380		83,600
				Rupees Three Hundreds Eighty Only		
90.03	25 mm nominal outer dia Pipes	Rmt	35	480		16,800
				Rupees Four Hundreds Eighty Only		
90.04	32 mm nominal outer dia Pipes	Rmt	15	580		8,700
				Rupees Five Hundreds Eighty Only		
91	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete.					
91.01	50 to 80 mm nominal bore	Each	5	980		4,900
				Rupees Nine Hundreds Eighty Only		



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WO / SOQR Number : 78278

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Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
Rate in Words						
92	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)					
92.01	20 mm nominal bore	Each	8	230		1,840
						Rupees Two Hundreds Thirty Only
92.02	25 mm nominal bore	Each	6	320		1,920
						Rupees Three Hundreds Twenty Only
92.03	32 mm nominal bore	Each	4	450		1,800
						Rupees Four Hundreds Fifty Only
92.04	40 mm nominal bore	Each	4	570		2,280
						Rupees Five Hundreds Seventy Only
92.05	50 mm nominal bore	Each	2	900		1,800
						Rupees Nine Hundreds Only
93	Providing and fixing gun metal non- return valve of approved quality (screwed end).					
93.01	50 mm nominal bore	Each	2	1400		2,800
						Rupees One Thousand Four Hundreds Only
94	Providing and fixing uplasticised PVC connection pipe with brass unions 45 cm length.					
94.01	15 mm nominal bore	Each	15	100		1,500
						Rupees One Hundreds Only
95	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
95.01	50 mm nominal bore	Each	2	900		1,800
						Rupees Nine Hundreds Only
96	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :					
96.01	15 mm nominal bore	Each	10	450		4,500
						Rupees Four Hundreds Fifty Only
97	Providing and fixing C.P. brass long body bib cock of size 15 mm nominal bore and approved quality conforming to IS standards and weighing not less than 690 gms.					
97.01	15 mm nominal bore	Each	12	780		9,360
						Rupees Seven Hundreds Eighty Only
98	Providing and fixing C.P. brass stop cock (concealed) of size 15 mm nominal bore and standard design and of approved make conforming to IS:8931.					
98.01	15 mm nominal bore	Each	4	620		2,480
						Rupees Six Hundreds Twenty Only
99	Providing and fixing C.P. brass angle valve of size 15 mm nominal bore for basin mixer and geyser points of approved quality conforming to IS:8931.					
99.01	15mm nominal bore	Each	538	550		2,95,900
						Rupees Five Hundreds Fifty Only
100	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I pipe etc.	Rmt	520	220		1,14,400
						Rupees Two Hundreds Twenty Only
101	Providing, laying and jointing glazed stoneware pipes of size 150 mm diameter and class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.	Rmt	40	720		28,800
						Rupees Seven Hundreds Twenty Only
102	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes of size 150 mm diameter including bed concrete as per standard design.	Rmt	24	830		19,920
						Rupees Eight Hundreds Thirty Only
103	Providing and fixing square-mouth S.W. gully trap (150 x 100 mm size P type) class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.	Each	6	3450		20,700
						Rupees Three Thousand Four Hundreds Fifty Only
104	Making connection (for pipes 100 to 250 mm diameter) of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete.	Rmt	148	800		1,18,400
						Rupees Eight Hundreds Only
105	Providing and fixing SS 304 Fly mesh in Aluminium sliding window shutters with aluminum glazing clip complete work including cost of all tools, labour, lead & lifts, etc. (cost of aluminium glazing clip to be paid in main item) as per the instruction of Engineer-in-charge.	Sqm	903	900		8,12,700
						Rupees Nine Hundreds Only
106	Providing and fixing hexagonal chicken mesh having opening 20mmx20mm of 26 gauge at junctions of concrete & brick work or between different material etc. as directed by Engineer-in-charge.	Sqm	824	55		45,320
						Rupees Fifty Five Only
107	Filling of sunk portion of roof with foam concrete of required height including filling complete levelling.	Cum	5	6400		32,000
						Rupees Six Thousand Four Hundreds Only
108	Providing and fixing Cera or Its equivalent make wash basin under counter with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls. complete job as per specification and directed by engineer in charge complete job as per specification and directed by Engineer-in-charge.	Each	8	4350		34,800
						Rupees Four Thousand Three Hundreds Fifty Only
109	Providing and fixing SFMC or Its equivalent make unplasticised SWR PVC pipes conforming to IS:13592 Type B including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.					
109.01	Single socketed pipes 110 mm dia.	Rmt	291	400		1,16,400
						Rupees Four Hundreds Only



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Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
				Rate in Words		
110	Providing and fixing SFMC or Its equivalent make unplasticised UPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
110.01	Coupler (socket) 110 mm dia.	Each	59	140		8,260
				Rupees One Hundreds Forty Only		
111	Providing and fixing SFMC or Its equivalent make unplasticised UPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
111.01	UPVC Double Single Y - 110mm dia.	Each	2	440		880
				Rupees Four Hundreds Forty Only		
112	Providing and fixing SFMC or Its equivalent make unplasticised UPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
112.01	Single door Y 110 mm dia	Each	8	340		2,720
				Rupees Three Hundreds Forty Only		
113	Providing and fixing SFMC or Its equivalent make unplasticised UPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
113.01	Plain Bend 110 mm.	Each	6	180		1,080
				Rupees One Hundreds Eighty Only		
114	Providing and fixing SFMC or Its equivalent make unplasticised UPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
114.01	Door Bend 110mm dia.	Each	16	240		3,840
				Rupees Two Hundreds Forty Only		
115	P&F rigid SFMC or Its equivalent make UPVC pipe fittings (IS: 4985 mark) of approved quality /make including joining the pipe with solvent cement rubber ring and lubricant.					
115.1	Vent Cowel 110mm dia.	Each	6	85		510
				Rupees Eighty Five Only		
116	Providing and fixing SFMC or Its equivalent make unplasticised UPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion.					
116.1	Plain floor trap 110mm dia.	Each	31	340		10,540
				Rupees Three Hundreds Forty Only		
117	Providing and fixing SFMC or Its equivalent make uPVC SWR moulded fitting accessories for unplasticised Rigid PVC pipes conforming to IS-13592 type B including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion. UPVC Multi floor trap 110mm dia.					
117.1	UPVC Multi floor trap 110mm dia.	Each	4	780		3,120
				Rupees Seven Hundreds Eighty Only		
118	Providing and fixing SFMC or Its equivalent make unplasticised -PVC pipe clips of approved design to unplasticised -PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
118.1	PVC pipe clips 110mm dia.	Each	194	400		77,600
				Rupees Four Hundreds Only		
119	Providing and laying (consolidated thickness) hard core fill (Stone soiling), under footing, pavings and other locations.	Cum	15	2890		43,350
				Rupees Two Thousand Eight Hundreds Ninety Only		
120	Providing and fixing glass louvers in windows & ventilator in toilets and similar locations with aluminium louvers frame of appropriate size (cost of aluminium frame to be paid in basic item) with 5.0mm thick clear float glass of approved manufacturer including cost of all fittings, labour, tools, lead & lifts etc. complete work as per instructions of Engineer-in-charge.	Sqm	5	1050		5,250
				Rupees One Thousand Fifty Only		
121	Providing and fixing Glass reinforced concrete(GRC) Jaali in approved shade size pattern , design, 15 mm thickness and color by spraying method using specialized equipments(power spray machines to attain the optimum strength) allowing simultaneous deposition of known quantities of cementitious slurry and chopped glass fiber. The screens should be made from " 53 grade white Portland cement quartz, fine silica sand , alkali resistant glass fiber manufactured by Saint Gobain or equivalent, super plasticizers manufactured by BASF or equivalent , polymers manufactured by BASF or equivalent and UV Resistant synthetic inorganic pigments manufactured by Bayerfox- (Germany) or equivalent. The material casting should take place in synthetic rubber/ FRP Mould manufactured by Reckli or equivalent. The fixing should be dry type ie to be done with SS-304 Grade L shaped clamps, dash fasteners, and pins/ anchors as per the direction of the architect/ engineer in charge. The work to be carried out at all heights depths." The casted screen moulds must be stored under controlled temperatures ranging in between 5 degree Celsius – 45 degree Celsius.	Sqm	50	4900		2,45,000
				Rupees Four Thousand Nine Hundreds Only		
122	Supplying, Drilling/Cleaning hole and injecting Hilti make ETA approved HIT-RE500-V4 chemical. The chemical should have ETA approval for 100 years service life & seismic rebar as a minimum qualifying criteria. The chemical should also be tested with different rock types to perform. Drilling hole with Drill Bit technology and ensure dust-free clean holes and proper bonding of chemical to the required depth, filling resin and hardener using serrated nozzle to eliminate mixing error with standard HDE A22 battery dispenser along with piston plug. The installation and the setting instructions should be strictly followed as per the manufacturer's recommendations. The adequate diameter and embedment of rebars to be decided by structural/ geological engineer and GFC drawing to be submitted to the project manager/ design engineer for execution. 27ML Mortar volume per anchor will be required for 12mm rebar (14mm hole) at 300 mm depth and LSP for Injectable mortar HIT-RE 500 V4/500ml cartridge.	Each	3200	330		10,56,000
				Rupees Three Hundreds Thirty Only		
123	Providing and fixing of 10mm thick UV resistant, colored multi wall polycarbonate sheet in roofing and cladding at any height of level with necessary screw and aluminum snap beading , EPDM beading on MS steel structure (which shall be paid separately) all complete.	Sqm	35	1750		61,250
				Rupees One Thousand Seven Hundreds Fifty Only		



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
124	Supply and application of polyurethane based bitumen free single pack elastomeric liquid applied water proofing membrane for a thickness of 1200 microns. The surfaces to be applied should be dry, cleaned and free from oil and grease. Loose particles should be removed and damaged spots repaired first. Cracks should be filled up cement MORTAR forming groove as per manufacturer's recommendations, as per the specifications and directions of Engineer-in-charge.	Sqm	1500	800		12,00,000
						Rupees Eight Hundreds Only
125	COLOUR COATED METAL SHEET ROOFING: Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) min. 0.60 mm un-coated bare metal thickness galvanised to grade 275 as per IS: 277, in min. 250 MPa steel grade, 5 microns epoxy primer on both side of the sheet and polyester top coat min. 20 microns DFT on external face & min. 5 microns DFT on internal face. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/ self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required, ridges or hips, gutters for draining water etc. all complete as per drawings, specifications and directions of Engineer. Notes: 1. The cost of purlins, rafters and trusses shall be paid in relevant items. 2. Payment shall be done on basis of measurement of actual finished item.	Kg	100	155		15,500
						Rupees One Hundreds Fifty Five Only
126	ROLLING SHUTTERS: Providing and fixing in position including assembling, hot dipped galvanised MS rolling shutter of approved make from MS sheets 18 Gauge, 75 mm wide including all necessary fixtures, fittings, top hood, removable central member for large size rolling shutter with or without wicket door, brackets, guide channels, heavy duty shaft, ceiling strips, locking arrangement and painting with one coat of approved primer and two coats of synthetic enamel paint, fixing in position in masonry/ concrete with necessary hardware, including suitable electric motor (3-phase 415V AC, 50Hz.) and gear arrangement, switches and necessary electrical wiring with provision of gear operation manually, cutting/ chipping and making good the masonry/ concrete, etc., all complete as per drawings, doors schedule, specifications and as directed by Engineer-in-charge.					
126.1	Mechanically operated with shaft	Sqm	10	8500		85,000
						Rupees Eight Thousand Five Hundreds Only
126.2	Extra over above Item No. 126.1 for Electrical motor operated.	Sqm	10	4500		45,000
						Rupees Four Thousand Five Hundreds Only
127	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in- charge.	Cum	50	900		45,000
						Rupees Nine Hundreds Only
128	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	100	800		80,000
						Rupees Eight Hundreds Only
129	GI Chainlink fencing : Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm made with 4mm dia GI Wire including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.	Sqm	1500	700		10,50,000
						Rupees Seven Hundreds Only
130	GI Wire : Supplying, fixing and tying in rows of 4mm dia GI wire in position running through the hooks provided in the G.I. chain link fence in proper line & level & two coats of aluminium paint as per drawing, specifications & direction of engineer. Note : Length of chain link fence shall only be measured.	Kg	500	140		70,000
						Rupees One Hundreds Forty Only
131	GI Barbed wire: Fencing with angle iron post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struted on both sides and end post one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts filled and fixed with G.I. staples, turn buckles etc. complete, (cost of posts, struts, earth work and concrete to be paid for separately). Payment to be made per meter cost of total length of barbed wire used. : With G.I. barbed wire.	Kg	1500	145		2,17,500
						Rupees One Hundreds Forty Five Only
132	Hume Pipe : Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete as per drawing, specifications & direction of engineer-in-charge.					
132.1	150mm Dia	Rmt	25	450		11,250
						Rupees Four Hundreds Fifty Only
132.2	250mm Dia	Rmt	25	700		17,500
						Rupees Seven Hundreds Only
132.3	300mm Dia	Rmt	25	750		18,750
						Rupees Seven Hundreds Fifty Only
132.4	450mm Dia	Rmt	25	1200		30,000
						Rupees One Thousand Two Hundreds Only
132.5	600mm Dia	Rmt	20	2500		50,000
						Rupees Two Thousand Five Hundreds Only
132.6	1000mm Dia (material)	Rmt	20	3500		70,000
						Rupees Three Thousand Five Hundreds Only
133	Concertina Coil : Providing and fixing concertina coil fencing with required dia 610mm (having 15 nos. round per 6 Metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. stud tied with G.I. staples and G.I. clips to retain horizontal including necessary belts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/sq. mm with tape (0.52mm thick) and weight 43.47 gm/Metre (cost of M.S. angle, C.C. blocks shall be paid separately).	Kg	500	150		75,000
						Rupees One Hundreds Fifty Only
134	POINTING ON MASONRY: Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand): Raised and cut pointing including finishing, curing, scaffoldings etc. complete at all height as per direction of Engineer-in-charge.	Sqm	1000	200		2,00,000
						Rupees Two Hundreds Only
135	Dismantling barbed wire or flexible wire rope or GI chain link fencing in fencing including making rolls and stacking within 50 metres lead.	Kg	1000	43		43,000
						Rupees Forty Three Only
136	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with a lead upto 50 metres.	Sqm	5000	15		75,000
						Rupees Fifteen Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
137	Providing, laying and spreading of water bound macadam to specified consolidated thickness with 40 mm and downgraded stone metal aggregate including 20 mm and below screening, sorting and spreading to template / profile, initially dry rolling, watering and consolidation with 10 T power roller to specified camber and levels. Spreading of binding material such as murrum, gravel etc. to fill up interstices of coarse aggregate, watering and rolling including all complete as per drawings and specifications. Note : The Item rate is inclusive of transportation of water by tankers within a lead of 6000 m and including all material necessary equipment labour etc. all complete.	Cum	1000	3500		35,00,000
						Rupees Three Thousand Five Hundreds Only
138	Preparing New surfaces (WBM Surfaces) by brushing with wire brushes for removing cake mud, silt etc., sweeping with brooms and finally fanning surface with gunning bags to remove all loose dirt etc. as per specifications and direction of EIC.	Sqm	5000	20		1,00,000
						Rupees Twenty Only
139	Providing and applying evenly a priming/tack coat with bituminous primer @ 8.5 Kg/10Sqm on old/newly prepared surfaces. Note: Rate of application of tack coat shall be established by the contracting agency with the approval of ENC through application of premeasured quantity of hot bitumen on known area of sample surface.	Sqm	5000	40		2,00,000
						Rupees Forty Only
140	Providing and laying single course premix carpet surface in thickness as specified by the Engineer with 0.36 CuM of stone chipping (in proportion of 20 mm size 0.18 Cum, 10 mm size 0.12 CuM and 6 mm size- 0.06 CuM) mixed with bitumen @ 5% by total weight of the aggregate including heating and premixing of aggregate in hot mix plant and compactor with 8 to 12 tonne roller to true grade line, camber and maintaining the sharp straight edge using suitable & effective means all etc. complete as per drawing specifications and direction of Engineer. Note: Pre-qualification of all the contractor's equipment by NPCIL for their working condition, capacity, adequacy for work etc. shall be mandatory before deployment at works.	MT	450	7200		32,40,000
						Rupees Seven Thousand Two Hundreds Only
141	Providing and laying of premixed seal coat in 25mm compacted thickness with mix proportion of fine aggregate (passing 6.30 mm sieve and retained on 2.36 mm sieve) mixed with bitumen of grade 80/100 @ 6.0% by weight of fine aggregate evenly mixing in hot mix plant and rolling with road roller to a uniform thickness surface including cleaning the surface by sweeping with brooms and finally fanning the cleaned surface with gunny bags to remove all loose dirt and foreign materials etc. complete as per specifications and direction of Engineer. Note: 1. No recovery shall be done for use of manufactured fine aggregates from dept. stock piles. 2. The aggregates shall be clean, hard, durable, un-coated dry particles and shall be free from dust, organic matter or any other deleterious substance. 3. The aggregates shall not contain soft or flaky/elongated aggregates.	MT	225	5000		11,25,000
						Rupees Five Thousand Only
142	Particle Board :Providing and fixing of 12mm thick both sides decorative pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge :Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	Sqm	100	700		70,000
						Rupees Seven Hundreds Only
143	EMBANKMENT: Construction of embankment for top 1000 mm of backfilling under roads, with 90 mm & down, well-graded approved material by using soil mixed with rock from excavated area/ stock pile material within a lead of 3000 m including excavating, loading, transporting, depositing in loose layers of 200 mm thickness, after removing/ breaking clods, etc., watering and compacting each layer of earth work in embankment under optimum moisture conditions to give at least 0.95 of the maximum dry density (proctor density), all complete as per drawings, specifications, and as directed by Engineer-in-charge.	Cum	2500	600		15,00,000
						Rupees Six Hundreds Only
144	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					
144.1	25 mm dia nominal bore	Rmt	25	300		7,500
						Rupees Three Hundreds Only
144.2	32 mm dia nominal bore	Rmt	45	420		18,900
						Rupees Four Hundreds Twenty Only
144.3	50 mm dia nominal bore	Rmt	310	500		1,55,000
						Rupees Five Hundreds Only
145	Providing and fixing gun metal gate non-return valve of approved quality (screwed end).					
145.1	25 mm nominal bore	Each	12	550		6,600
						Rupees Five Hundreds Fifty Only
145.2	32 mm nominal bore	Each	2	650		1,300
						Rupees Six Hundreds Fifty Only
145.3	50 mm nominal bore	Each	4	1100		4,400
						Rupees One Thousand One Hundreds Only
146	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality.					
146.1	25 mm diameter pipe	Rmt	78	10		780
						Rupees Ten Only
146.2	32 mm diameter pipe	Rmt	45	11		495
						Rupees Eleven Only
146.3	50 mm diameter pipe	Rmt	33	12		396
						Rupees Twelve Only
147	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade in two or more coats on new works.	Sqm	50	170		8,500
						Rupees One Hundreds Seventy Only
148	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately):					
148.1	50 mm dia.	Each	2	3500		7,000
						Rupees Three Thousand Five Hundreds Only
149	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :	Each	23	6000		1,38,000
						Rupees Six Thousand Only
150	Providing and filling sand of grading zone V or coarser grade, all round the G.I. pipes in external work.					



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
150.1	25mm diameter pipe	Rmt	25	190		4,750
						Rupees One Hundreds Ninety Only
150.2	32mm diameter pipe	Rmt	45	600		27,000
						Rupees Six Hundreds Only
150.3	50mm diameter pipe	Rmt	310	800		2,48,000
						Rupees Eight Hundreds Only
151	Providing and placing in position 100 mm thick machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways, neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick, 100 mm wide MS sheet duly painted over priming coat, reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc. i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	Sqm	500	1500		7,50,000
						Rupees One Thousand Five Hundreds Only
152	Providing and fixing precast cement concrete string or lacing courses, copings, bed plates. Anchor blocks, plain window sills, shelves, louvers, steps, stair cases etc. including hosting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost required centering complete.					
152.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone III) derived from natural sources : 3 graded stone aggregate 20mm nominal size derived from natural sources).	Cum	5	6000		30,000
						Rupees Six Thousand Only
153	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but, excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	7	450		3,150
						Rupees Four Hundreds Fifty Only
154	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	2550	1200		30,60,000
						Rupees One Thousand Two Hundreds Only
155	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	20	7000		1,40,000
						Rupees Seven Thousand Only
156	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.	Each	3	18000		54,000
						Rupees Eighteen Thousand Only
157	Structural Steel Work :Structural steel work riveted, bolted or welded in built up sections, trusses and frame work M.S. door & fix ventilators, anchors, grills, plate/sleeve embedded parts, railing, gates, edge angles etc. made out M.S. angle, channels, flats, rods, bars, weld mesh, M.S. pipe etc. including supplying, cutting, hoisting, fixing in position and applying two coat of approved quality synthetic enamel paint over a priming coat of approved steel primer all complete as per standard design, including the cost of all material and labour complete- as per drawings, specifications & direction of engineer in charge.	Kg	50000	110		55,00,000
						Rupees One Hundreds Ten Only
158	POINT WIRING Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.					
158.1	GROUP-A	Point	20	900		18,000
						Rupees Nine Hundreds Only
158.2	GROUP-B	Point	20	1250		25,000
						Rupees One Thousand Two Hundreds Fifty Only
158.3	GROUP-C	Point	20	1500		30,000
						Rupees One Thousand Five Hundreds Only
159	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.					
159.1	GROUP-A	Point	8	700		5,600
						Rupees Seven Hundreds Only
159.2	GROUP-B	Point	8	800		6,400
						Rupees Eight Hundreds Only
159.3	GROUP-C	Point	8	900		7,200
						Rupees Nine Hundreds Only
160	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
160.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Meter	500	265		1,32,500
						Rupees Two Hundreds Sixty Five Only
160.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Meter	20	380		7,600
						Rupees Three Hundreds Eighty Only
160.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Meter	20	480		9,600
						Rupees Four Hundreds Eighty Only
160.4	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Meter	20	680		13,600
						Rupees Six Hundreds Eighty Only
160.5	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Meter	20	880		17,600
						Rupees Eight Hundreds Eighty Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.

WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
				Rate in Words		
161	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC Insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.					
161.1	GROUP-A	Point	160	860		1,37,600
				Rupees Eight Hundreds Sixty Only		
161.2	GROUP-B	Point	160	1050		1,68,000
				Rupees One Thousand Fifty Only		
161.3	GROUP-C	Point	31	1280		39,680
				Rupees One Thousand Two Hundreds Eighty Only		
162	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc.as required.					
162.1	GROUP-A	Point	20	640		12,800
				Rupees Six Hundreds Forty Only		
162.2	GROUP-B	Point	20	740		14,800
				Rupees Seven Hundreds Forty Only		
162.3	GROUP-C	Point	20	840		16,800
				Rupees Eight Hundreds Forty Only		
163	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / medium class PVC conduit, 2way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.	Point	6	1350		8,100
				Rupees One Thousand Three Hundreds Fifty Only		
164	Wiring for light/ Power Plug with 2x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / medium class PVC conduit, alongwith with 1x4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	5640	195		10,99,800
				Rupees One Hundreds Ninety Five Only		
165	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
165.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Meter	2620	200		5,24,000
				Rupees Two Hundreds Only		
165.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Meter	180	330		59,400
				Rupees Three Hundreds Thirty Only		
165.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Meter	600	400		2,40,000
				Rupees Four Hundreds Only		
165.4	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Meter	300	510		1,53,000
				Rupees Five Hundreds Ten Only		
165.5	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Meter	130	680		88,400
				Rupees Six Hundreds Eighty Only		
165.6	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Meter	380	680		2,58,400
				Rupees Six Hundreds Eighty Only		
166	STEEL CONDUIT Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. .					
166.1	20 mm	Meter	300	190		57,000
				Rupees One Hundreds Ninety Only		
166.2	25 mm	Meter	300	210		63,000
				Rupees Two Hundreds Ten Only		
166.3	32 mm	Meter	120	270		32,400
				Rupees Two Hundreds Seventy Only		
166.4	40 mm	Meter	60	370		22,200
				Rupees Three Hundreds Seventy Only		
167	PVC CONDUIT Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
167.1	20 mm	Meter	1280	108		1,38,240
				Rupees One Hundreds Eight Only		
167.2	25 mm	Meter	2000	127		2,54,000
				Rupees One Hundreds Twenty Seven Only		
167.3	32 mm	Meter	200	150		30,000
				Rupees One Hundreds Fifty Only		
167.4	40 mm	Meter	60	195		11,700
				Rupees One Hundreds Ninety Five Only		
168	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
168.1	5/6 A switch	Each	10	98		980
				Rupees Ninety Eight Only		



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
168.2	2way 5/6 A switch	Each	10	138		1,380
						Rupees One Hundreds Thirty Eight Only
168.3	15/16 A switch	Each	10	138		1,380
						Rupees One Hundreds Thirty Eight Only
168.4	3 pin 5/6 A socket outlet	Each	10	108		1,080
						Rupees One Hundreds Eight Only
168.5	6 pin 15/16 A socket outlet	Each	10	240		2,400
						Rupees Two Hundreds Forty Only
168.6	Bell push	Each	7	208		1,456
						Rupees Two Hundreds Eight Only
169	Providing and fixing circular / Hexagonal G.I. Box for ceiling fan clamp of internal dia 140 mm , 73 mm height top lid of 1.5 mm thick G.I. Sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast G.I. box by means of 3.3 mm dia round headed screws, one lock at the corners. clamp shall be made of 12 mm dia M.S bar bent to shape as per standard drawing. (As Per Civil DSR-2014 item No-10.18)	Each	42	130		5,460
						Rupees One Hundreds Thirty Only
170	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	42	330		13,860
						Rupees Three Hundreds Thirty Only
171	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required / Chandelier light fixture.	Each	42	380		15,960
						Rupees Three Hundreds Eighty Only
172	Numbering of ceiling Fan / exhaust Fan / Fluorescent fittings as required.	Each	453	62		28,086
						Rupees Sixty Two Only
173	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. Upto 450mm sweep.	Each	8	54		432
						Rupees Fifty Four Only
174	Installation of exhaust fan in the existing opening , including making good the damage, connection, testing, commissioning etc as required.	Each	8	285		2,280
						Rupees Two Hundreds Eighty Five Only
175	Supplying and fixing modular blanking plate on the existing modular plate & Switch Box excluding modular plate as required.	Each	20	30		600
						Rupees Thirty Only
176	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.					
176.1	1 or 2 Module (75mm x 75mm)	Each	10	300		3,000
						Rupees Three Hundreds Only
176.2	3 Module (100mmX75mm)	Each	10	320		3,200
						Rupees Three Hundreds Twenty Only
176.3	4 Module (125mmX75mm)	Each	16	340		5,440
						Rupees Three Hundreds Forty Only
176.4	6 Module (200mmX75mm)	Each	10	360		3,600
						Rupees Three Hundreds Sixty Only
176.5	8 Module (125mmX125mm)	Each	10	380		3,800
						Rupees Three Hundreds Eighty Only
176.6	12 Module (200mmX150mm)	Each	10	410		4,100
						Rupees Four Hundreds Ten Only
177	Supplying and fixing following modular base & cover plate on existing modular metal boxes etc as required.					
177.1	1 or 2 Module	Each	10	445		4,450
						Rupees Four Hundreds Forty Five Only
177.2	3 Module	Each	10	115		1,150
						Rupees One Hundreds Fifteen Only
177.3	4 Module	Each	13	145		1,885
						Rupees One Hundreds Forty Five Only
177.4	6 Module	Each	10	165		1,650
						Rupees One Hundreds Sixty Five Only
177.5	8 Module	Each	10	180		1,800
						Rupees One Hundreds Eighty Only
177.6	12 Module	Each	7	120		840
						Rupees One Hundreds Twenty Only
178	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required.	Each	43	450		19,350
						Rupees Four Hundreds Fifty Only
179	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	89	550		48,950
						Rupees Five Hundreds Fifty Only
180	Supplying and fixing 3Pin 5A ceiling rose on the existing junction Box / wooden block including connections etc. as required.	Each	10	120		1,200
						Rupees One Hundreds Twenty Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.

WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
Rate in Words						
181	Supplying and fixing brass batten / angle holder including connection etc. as required.	Each	20	160		3,200
						Rupees One Hundreds Sixty Only
182	Installation, testing and commissioning of wall bracket / ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting complete with all accessories including connection etc. as required.	Each	75	150		11,250
						Rupees One Hundreds Fifty Only
183	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	341	240		81,840
						Rupees Two Hundreds Forty Only
184	Supplying and fixing call bell / buzzer suitable for single Phase 230V, complete as required.	Each	10	115		1,150
						Rupees One Hundreds Fifteen Only
185	Supplying and fixing suitable size GI Box with Modular Plate and cover in front on surface or in recess including Providing and Fixing 25A Modular Socket outlet and 25A Modular SP MCB, "C" curve including connections, painting etc. as required.	Each	10	750		7,500
						Rupees Seven Hundreds Fifty Only
186	MCCB, MCB & DB's Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc.as required. (But without MCB/RCCB/Isolator)					
186.1	12 way, Double door	Each	2	2100		4,200
						Rupees Two Thousand One Hundreds Only
187	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
187.1	4 way (4 + 12), Double door	Each	1	4000		4,000
						Rupees Four Thousand Only
187.2	6 way (4 + 18), Double door	Each	6	4800		28,800
						Rupees Four Thousand Eight Hundreds Only
187.3	8 way (4 + 24), Double door	Each	8	5800		46,400
						Rupees Five Thousand Eight Hundreds Only
188	Supplying and fixing following way, surface/recess mounting, vertical type 415V , TPN MCB distribution board of sheet steel, dust protected,duly powder painted, inclusive of 200A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB,S (But without MCB'S and incomer) as required. (Note:Vertical type MCB TPDB normally used where 3 Phase outlet are required.)					
188.1	4 way (4 + 12), Double door	Each	1	5900		5,900
						Rupees Five Thousand Nine Hundreds Only
188.2	8 way (4 + 24), Double door	Each	1	7900		7,900
						Rupees Seven Thousand Nine Hundreds Only
188.3	12 way (4 + 36), Double door	Each	1	11900		11,900
						Rupees Eleven Thousand Nine Hundreds Only
189	Supplying and fixing 5 amps to 32 amps rating, 240/415V volts,10 KA , "C" curve miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB, complete with connections, testing and commissioning etc. as required					
189.1	Single Pole	Each	296	330		97,680
						Rupees Three Hundreds Thirty Only
189.2	Single Pole & Neutral	Each	10	630		6,300
						Rupees Six Hundreds Thirty Only
189.3	Double Pole	Each	10	740		7,400
						Rupees Seven Hundreds Forty Only
189.4	Triple pole	Each	5	1000		5,000
						Rupees One Thousand Only
189.5	Triple pole & Neutral	Each	5	1350		6,750
						Rupees One Thousand Three Hundreds Fifty Only
190	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	10	15		150
						Rupees Fifteen Only
191	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
191.1	25 A	Each	5	2737		13,685
						Rupees Two Thousand Seven Hundreds Thirty Seven Only
191.2	40 A	Each	34	3557		1,20,938
						Rupees Three Thousand Five Hundreds Fifty Seven Only
191.3	63 A	Each	18	3662		65,916
						Rupees Three Thousand Six Hundreds Sixty Two Only
192	Supplying and fixing following rating, four pole, (Three phase and neutral), 415 volts, Isolator/ MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
192.1	40 A	Each	10	1350		13,500
						Rupees One Thousand Three Hundreds Fifty Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
Rate In Words						
192.2	63 A	Each	6	1435		8,610
						Rupees One Thousand Four Hundreds Thirty Five Only
192.3	100A	Each	5	1692		8,460
						Rupees One Thousand Six Hundreds Ninety Two Only
193	Supplying and fixing 20amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	4	1890		7,560
						Rupees One Thousand Eight Hundreds Ninety Only
194	Providing and fixing M.V danger notice plate of 250mm X 200mm, made of mild steel, at lease 2mm thick, and vitereous enameled white on both sides, and with incription in single red colour on front side as required.	Each	4	416		1,664
						Rupees Four Hundreds Sixteen Only
195	CABLE TRAYS HOT DIPPED GALVANIZED IRON CABLE TRAY Supplying and installing following size of perforated hot dipped galvanized iran cable tray (HOT DIPPED GALVANIZED IRON CABLE TRAY, Galvanized thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, Joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. Bolts & Nuts, etc. as required.					
195.1	100 mm width X 50 mm Depth x 1.6 mm thickness.	Metre	20	650		13,000
						Rupees Six Hundreds Fifty Only
195.2	150 mm width X 50 mm Depth x 1.6 mm thickness.	Metre	20	740		14,800
						Rupees Seven Hundreds Forty Only
195.3	225 mm width X 50 mm Depth x 1.6 mm thickness.	Metre	20	840		16,800
						Rupees Eight Hundreds Forty Only
195.4	300 mm width X 50 mm Depth x 1.6 mm thickness.	Metre	20	940		18,800
						Rupees Nine Hundreds Forty Only
196	Supplying and installing following size of perforated hot dipped galvanized iran cable tray "Bends" (Galvanized thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, Joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. Bolts & Nuts, etc. as required.					
196.1	100 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1050		10,500
						Rupees One Thousand Fifty Only
196.2	150 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1350		13,500
						Rupees One Thousand Three Hundreds Fifty Only
196.3	225 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1450		14,500
						Rupees One Thousand Four Hundreds Fifty Only
196.4	300 mm width X 50 mm Depth x 1.6 mm thickness.	Each	20	1750		35,000
						Rupees One Thousand Seven Hundreds Fifty Only
197	Supplying and installing following size of perforated hot dipped galvanized iran cable tray "Tee" (Galvanized thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, Joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. Bolts & Nuts, etc. as required.					
197.1	100 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1150		11,500
						Rupees One Thousand One Hundreds Fifty Only
197.2	150 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1350		13,500
						Rupees One Thousand Three Hundreds Fifty Only
197.3	225 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1550		15,500
						Rupees One Thousand Five Hundreds Fifty Only
197.4	300 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1750		17,500
						Rupees One Thousand Seven Hundreds Fifty Only
198	Supplying and installing following size of perforated hot dipped galvanized iran cable tray "Cross member" (Galvanized thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, Joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. Bolts & Nuts, etc. as required.					
198.1	100 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1050		10,500
						Rupees One Thousand Fifty Only
198.2	150 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1150		11,500
						Rupees One Thousand One Hundreds Fifty Only
198.3	225 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1400		14,000
						Rupees One Thousand Four Hundreds Only
198.4	300 mm width X 50 mm Depth x 1.6 mm thickness.	Each	10	1900		19,000
						Rupees One Thousand Nine Hundreds Only
199	Supplying and installing following size of perforated hot dipped galvanized iran cable tray "Reducer" (Galvanized thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, Joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. Bolts & Nuts, etc. as required.					
199.1	100 mm width X 50 mm Depth x 1.6 mm thickness.	Each	2	1400		2,800
						Rupees One Thousand Four Hundreds Only
199.2	150 mm width X 50 mm Depth x 1.6 mm thickness.	Each	2	1750		3,500
						Rupees One Thousand Seven Hundreds Fifty Only
199.3	225 mm width X 50 mm Depth x 1.6 mm thickness.	Each	2	2500		5,000
						Rupees Two Thousand Five Hundreds Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate In %	Amount in ₹
						Rate In Words
199.4	300 mm width X 50 mm Depth x 1.6 mm thickness.	Each	2	2750		5,500 Rupees Two Thousand Seven Hundreds Fifty Only
200	EARTHING Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required (For MDB / MLP)	Each	4	7450		29,800 Rupees Seven Thousand Four Hundreds Fifty Only
201	EARTHING Supplying and laying 6 swg G.I. wire at 0.50M Meter below ground level for conductor earth electrode, including connections / termination with G.I. thimble etc as required.	Metre	1600	62		99,200 Rupees Sixty Two Only
202	EARTHING Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	60	150		9,000 Rupees One Hundreds Fifty Only
203	EARTHING Supplying and laying 25 mm X 5 mm G.I strip in 40mm dia G.I. Pipe from earth electrode, including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	40	725		29,000 Rupees Seven Hundreds Twenty Five Only
204	EARTHING Providing & Fixing 25 mm X 5 mm G.I strip on surface or in recess for connections etc. as required.	Metre	300	300		90,000 Rupees Three Hundreds Only
205	EARTHING Providing & Fixing 6 SWG dia G.I wire on surface or in recess for loop earthing as required.	Metre	100	90		9,000 Rupees Ninety Only
206	EARTHING Providing & Fixing 6 SWG dia G.I wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	Metre	100	65		6,500 Rupees Sixty Five Only
207	LIGHTNING CONDUCTOR Providing and fixing of lightning conductor finial made of 25mm dia 300mm long G.I. tube having single prong at top with 85 mm dia 6 mm thick G.I. base plate including holes complete as required	Each	2	750		1,500 Rupees Seven Hundreds Fifty Only
208	LIGHTNING CONDUCTOR Jointing copper and G.I Tape (with another copper / G.I Tape, Base of the finial or any other metallic object) by riveting / nut bolting / sweating and soldering etc. as required.	Each	2	150		300 Rupees One Hundreds Fifty Only
209	LIGHTNING CONDUCTOR Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)	Metre	488	160		78,080 Rupees One Hundreds Sixty Only
210	LIGHTNING CONDUCTOR Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)	Metre	96	314		30,144 Rupees Three Hundreds Fourteen Only
211	LIGHTNING CONDUCTOR Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	2	150		300 Rupees One Hundreds Fifty Only
212	LIGHTNING CONDUCTOR Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	40	277		11,080 Rupees Two Hundreds Seventy Seven Only
213	MV CABLE LAYING Cables from DG Set & Existing Panel to New Main Panel in out of scope. (Client Scope) Laying of One number PVC insulated and PVC sheathed / XLPE Power cable of 1.1 KV grade of following size direct in ground, including excavation , sand cushioning, protective covering and refilling the trench etc as required .	Metre	1535	410		6,29,350 Rupees Four Hundreds Ten Only
213.1	35sq.mm to 70 sq.mm					
214	MV CABLE LAYING Cables from DG Set & Existing Panel to New Main Panel in out of scope. (Client Scope) Laying of One number PVC insulated and PVC sheathed / XLPE Power cable of 1.1 KV grade of following size in the existing RCC/HUME/METAL pipe as required.	Metre	90	40		3,600 Rupees Forty Only
214.1	35sq.mm to 70 sq.mm					
215	MV CABLE LAYING Cables from DG Set & Existing Panel to New Main Panel in out of scope. (Client Scope) Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.	Metre	240	50		12,000 Rupees Fifty Only
215.1	Upto 35sq.mm (clamped with 1mm thick saddle)					
216	MV CABLE LAYING Cables from DG Set & Existing Panel to New Main Panel in out of scope. (Client Scope) Supplying & Fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted / welded to 35 mm x 35 mm x 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	4	650		2,600 Rupees Six Hundreds Fifty Only
217	MV CABLE JOINTING & END TERMINATION Supplying and making end termination with brass compression gland and Aluminium lugs for following size of PVC insulated and PVC Sheathed / XLPE Aluminium conductor cable of 1.1KV grade as required.	Each	2	590		1,180 Rupees Five Hundreds Ninety Only
217.1	3.5C X 70 sq. mm (38mm)					
217.2	4C X 16 sq. mm (28mm)	Each	4	415		1,660 Rupees Four Hundreds Fifteen Only
217.3	4C X 50 sq. mm (35mm)	Each	2	510		1,020 Rupees Five Hundreds Ten Only
218	LIGHTING CONTROLS Supplying, testing, installation and commissioning of passive infrared (PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10A, for mounting height upto 2.8 m and for 5 m diameter coverage area alongwith necessary fixing arrangements i/c programing at site etc. complete as required.	Each	6	6264		37,584 Rupees Six Thousand Two Hundreds Sixty Four Only
219	BLDC FAN Supplying, installation, testing and commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush less Direct current (BLDC) Motor, class of insulation: B, 3Nos. Blades, 30 cm long down rod, 2Nos. Canopies, shackle kit, safety rope, copper winding, power factor not less than 0.9, service value (CM/M/W) minimum 6.00, Air delivery minimum 210 cum / Min., 350 RPM (tolerance as per IS:374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nuts bolts, washers, temperature rise = 75 degree C (Max.), insulation resistance more than 2 mega ohm, suitable for 230V, 50Hz, single phase AC supply, eathing etc. complete as required.	Each	42	3350		1,40,700 Rupees Three Thousand Three Hundreds Fifty Only



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Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
220	BLDC FAN Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (up to 30cm) with 1.5 sqm mm FRLS PVC insulated, copper conductor, single core cable etc. As required by Engineer In Charge.	Each	20	350		7,000
				Rupees Three Hundreds Fifty Only		
221	L.T. PANELS : Supply & installation of the following cubical type panels made of 2.0 CRCA structure, base channel ISMC, doors & sheet metal partitions complete with Air Circuit Breaker, moulded case circuit breakers, meters, indicating lamps, current transformer etc. Complete in all respects, insulated bus bars with heat shrinkable PVC sleeve, supported on FRP / SMC supports in suitable bus chambers, interconnection, small wiring, name plate, danger plate, earth bus etc. & comprising of compartments with hinged door for each feeder & its accessories, cable alley with hinged doors, bus chamber with bolted door etc. The panel being of dust & vermin proof construction with Neoprene / EPDM rubber gasket, attractively powder coated with Light Grey Paint shade RAL 7035 and having orange peel finish. The panel shall be free standing type/ wall mounted type as per relevant drawing and comprising with the following: 1) Breaking Capacity of all MCCB's are Ics Service Breaking Capacity. 2) MCCB's upto 250A shall be with Adjustable thermal-magnetic and above 250A Microprocessor based Adjustable release. MCCB's for incomers shall have within built O/C, S/C and E/F protection in SUB PANELS and for outgoing feeders of all panels shall be with in built O/C and S/C protection. 3) The Earth fault protection for MCCB's upto 250A shall be provided with external E/F module and above 250A rating it shall be in built with MCCB's Micro Processor release. 4) All MCCB's shall be with Extended type Front door operating handle, Phase Spreaders & Phase Barriers. 5) TPN MCCB Shall mean 3 Pole MCCB with Adequate size of separate neutral link. 6) The Current Transformers burden shall be 5VA upto 250A & 15 VA above 250A, accuracy class 1.0 for metering and class 5P10 for protection. 7) MCCB above 63A should be provided with copper spreader terminals. 8) CT's shall be "CAST RESIN" type. 9) All indication lights shall be LED type. 10) All meters shall be "DIGITAL" type with RS485 Port except ammeter & voltmeter. 11) Panel space heaters with control MCB & Thermostat, covered LED lamp controlled by door switch for each panel bay. 12) Gland plates shall be 3mm thick Alu. sheet for Multi core cable and 3.0mm Alu. for single core cable. 13) "ON" Indicating lamp shall be provided for all 3 phase MCCB outgoing feeders unless otherwise specified. 14) Control SP MCB's of 6A Rating shall be provided for each metering circuit/control circuit. 15) The operating height shall be limited to 300mm minimum and 1800mm maximum. 16) Degree of Protection for Indoor panels shall be IP:54 & For Outdoor Panel IP:55, Double Door with Canopy. For current ratings above 1600A, forced cooling arrangement (Fan with hood) will be provided to achieve desired temperature rise & degree of protection. 17) The maximum temperature rise at any point on bus bar and the joints shall not be more than 40°C over an ambient of 45° C. 18) Current density of Busbar shall be calculated based on temp rise & other calculation factor, for 600A & below ratings, Current density of aluminium shall be minimum 0.8 Amps per sqmm for rated current of bus bars and current density of copper shall be min 1.60 Amps per sqmm for rated current of bus bars. 19) Design calculations for temperature rise of bus bars to be submitted for bus bars having higher current ratings than 600A. 20) Panel manufacturer should have valid Type Test Certificates for short Time withstand current test of 50kA for 1.0 Sec. D.O.P and temperature rise on similar panels, from CPRI Bhopal/Bangalore. 21) Panel stand shall be provided for wall mounted panel / MDB's including powder coated sheet on all three sides. & Panel Height & Depth must be shall be as per comments on GA Drawings as per location. 22) Main Lighting Panel shall have Provision to fire suppression system. 23) Surge Suppressor type B+C with 160A 4P FUSE back up protection in MLTP & all outdoor Panels and Type-C with 125A 4P FUSE back up protection for all Indoor Panels & Separate compartment shall be provided for surge devices ("Surge Arrestor shall be provided only as per below Panels mentioned). 24) All live parts of conductor should be cover with Polycarbonate / acrylic sheet at incomer / outgoing links, cable alley / bus bar chamber etc. improve safety standards as possible. 25) RYB Colored PVC Sleeve shall be provided in place of Sticker. 26) Cable Alley compartment width & depth shall be sufficient as per numbers of cables & size of cables, must be as per comments. 27) All Indoor Panels cable entry shall have provision for both Top / Bottom side.					
221.1	MAIN LIGHTING PANEL INCOMING 1No. 250A, 4P MCCB (36kA) within Thermal Magnetic based O/C, S/C & E/F release. 1 No. 250A, FP ATS (Automatic transfer switch) (25kA) with Solenoid coil & accessories (For receive MLTP & Client Supply) MAIN BUS BAR One Set of 300A, TPN AL. Bus Bar (36kA), with PVC Sleeve in sealed Bus Chamber (Main Bus-Bar) METERING, INDICATION AND RELAY : 1 Set of R/ Y/ B phase indicating lamp with control MCBs. 1 Set of ON/OFF/TRIP Indicating lamps with control MCBs. 1 No. digital Multi Function Meter (A,V, KWH) and CT's & control MCBs. (EM 6436/Eqv). 1 Set of Surge Suppressor type-II with 125A 4P FUSE backup protection. Control MCB's. OUTGOINGS : 3 Nos. 160 FP MCCB (25kA). 3 Nos. 63 FP MCB - C-Curve (10kA). 2 Nos. 40 FP MCB - C-Curve (10kA). 1 Nos. 63 DP MCB - C-Curve (10kA). METERING & INDICATION : 3 Sets of "ON" LED Indicating lamp with control circuit 40X6 mm AL. earth bus across the width of panel.	Set	1	335000		3,35,000
				Rupees Three Lakh Thirty Five Thousand Only		
221.2	MDB-01 (LHS) INCOMING 1No. 160A, 4P MCCB (25kA) within Thermal Magnetic based O/C & S/C release. MAIN BUS BAR One Set of 200A, TPN AL. Bus Bar (25kA), with PVC Sleeve in sealed Bus Chamber. METERING & INDICATION : 1 Set of R/ Y/ B phase indicating lamp with control MCBs. 1 Set of ON/OFF/TRIP Indicating lamps with control MCBs. 1 No. Digital Multi Function Meter (A,V, KWH) and CT's & control MCBs. (EM 6436/Eqv). Control MCB's. OUTGOINGS : 5 Nos. 63A FP MCB - C-Curve (10kA). 5 Nos. 40A FP MCB - C-Curve (10kA). 25X6 mm AL. earth bus across the width of panel	Set	2	115000		2,30,000
				Rupees One Lakh Fifteen Thousand Only		
221.3	MCB ENCLOSURE INCOMING CUM OUTGOING					
		Set	4	5927		23,708
221.3.1	1No. 40A, FP MCB (10kA).			Rupees Five Thousand Nine Hundreds Twenty Seven Only		
221.3.2	1No. 63A, DP MCB (10kA).	Set	2	4400		8,800
				Rupees Four Thousand Four Hundreds Only		
221.4	YLD-1/2 (EXTERNAL LIGHTING DB) (FOR LHS & RHS) (OUTDOOR TYPE) INCOMING : 1 No. 63A, FP MCB (10kA) (C- Curve). 63A 4P Power Contactor. BUS BAR : Two sets of 100 A TP+100%N Alu. Bus Bar (25kA) with PVC Sleeve in sealed Powder Coated Bus Chamber. METERING AND INDICATIONS 1 Set of Surge Suppressor type B+C with 63A 4P FUSE backup protection. Astronomical Electronic Timer (for 24 hours) Auto / manual Switch Push button (ON / OFF) Indicating lamps (ON / OFF) 6A SP MCB (10kA) for control ckt. Internal wiring OUTGOINGS WITH TIMER : 7 Nos. 10 A 4P MCB (10kA) (C- Curve). OUTGOINGS WITHOUT TIMER (Before Contactor) : 3 Nos. 32 A FP MCB (10kA) 2 Nos. 25 A DP MCB (10kA) 6A SP MCB (10kA) for control ckt. 25 x 6 mm AL. earth bus across the width of panel	Set	2	72000		1,44,000
				Rupees Seventy Two Thousand Only		
222	L.T. CABLING Supply, Receiving, unloading, handling, storing double handling, transport to exact location, laying, testing & commissioning of the 1100 Volts XLPE insulated PVC sheathed steel armoured/ unarmoured Multi stranded cables as per IS-7098 Part- I and as per standard specification, cable laying in indoor trenches including cable route marking mentioned the depth & voltage level at every 20Mtr. / Indoor & outdoor cables tray/ cable rack/ supports /existing pipes etc. as per specifications, inclusive of all clamps/ saddles/ screws/ cables identification tags (made of GSS sheets) etc. as required, but exclusive of supply & fixing of cable trays.					
222.1	ALUMINIUM CABLES (ARMOURED)					
222.1.1	3.5 core 70 sq.mm XLPE	RM	110	550		60,500
				Rupees Five Hundreds Fifty Only		
222.1.2	4 core 16 sq.mm XLPE	RM	120	250		30,000
				Rupees Two Hundreds Fifty Only		
222.2	COPPER CABLES (ARMOURED)					



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate In Words						
222.2.1	4 core 10 sq. mm. XLPE	RM	20	650		13,000
						Rupees Six Hundreds Fifty Only
222.2.2	4 core 6 sq. mm. XLPE	RM	60	350		21,000
						Rupees Three Hundreds Fifty Only
222.3	COPPER FLEXIBLE CABLES FOR UPS Same as above item No-90 and Flexible stranded cables as per IS-694:2010 and as per standard specification.					
222.3.1	1 Core 10 sq. mm. Cu. Flexible FRLS	RM	25	105		2,625
						Rupees One Hundreds Five Only
222.3.2	1 Core 6 sq. mm. Cu. Flexible FRLS	RM	100	45		4,500
						Rupees Forty Five Only
223	CABLES END TERMINATIONS: Supply & providing cable end termination for following Alu/Cu conductor cables using crimping sockets, brass Double Compression glands, etc. as required.					
223.1	ALUMINIUM CABLES (ARMOURED)					
223.1.1	3.5 core 70 sq.mm XLPE	Nos	2	740		1,480
						Rupees Seven Hundreds Forty Only
223.1.2	4 core 16 sq.mm XLPE	Nos	2	540		1,080
						Rupees Five Hundreds Forty Only
223.2	COPPER CABLES (ARMOURED)					
223.2.1	4 core 10 sq. mm. XLPE	Nos	2	490		980
						Rupees Four Hundreds Ninety Only
223.2.2	4 core 6 sq. mm. XLPE	Nos	2	440		880
						Rupees Four Hundreds Forty Only
224	COPPER CABLES (FLEXIBLE FOR UPS) Supply & Installation of cable end terminations for following Aluminium/Copper conductor cables using crimping sockets, copper lugs, thermoplastic polyamide metric Double Compression glands, etc. as required.					
224.1	1 Core 10 sq. mm. Cu. Flexible FRLS	Nos	1	67		67
						Rupees Sixty Seven Only
224.2	1 Core 6 sq. mm. Cu. Flexible FRLS	Nos	40	48		1,920
						Rupees Forty Eight Only
225	LUMINAIRES Supply, receiving, handling, storing, double handling, transport to exact location, hoisting to required level, assembling, erecting, testing & commissioning of luminaires basic channel, holder, electronic ballast/LED driver (as per mentioned in item), starter, condenser, control gear box complete with decorative attachments, lamps etc.as per specifications and as per catalogue number giving below.					
225.1	ENDURA LED Batten with cover 17W LED Light fixtures Philips Cat No.BN308C LED 20S-6500 L120 PSU WH (2000 Lumen) / Havells / Eqv.	Nos	105	2250		2,36,250
						Rupees Two Thousand Two Hundreds Fifty Only
225.2	Surface mounted 15W LED Down light fixture Philips Cat No. SM251C LED16S-6500 PSU WH (1600 Lumen) / Havells / Eqv.	Nos	155	2050		3,17,750
						Rupees Two Thousand Fifty Only
225.3	Surface mounted 24W LED Down light fixture Wipro Cat No. LD06-171XXX-57SMG1 (1600 Lumen) / Havells / Eqv.	Nos	108	2350		2,53,800
						Rupees Two Thousand Three Hundreds Fifty Only
225.4	7W LED Spot light fixture (Above wash Basin) Phillips Cat No. - Sky Spot Cob LED (WW). (475 Lumen) / / Havells / Eqv.	Nos	8	1850		14,800
						Rupees One Thousand Eight Hundreds Fifty Only
225.5	Smart Bright LED Batten with cover 10W LED Light fixtures Philips Cat No. BN 021 LED 12S 6500 PSU GR (1080 Lumens) (2FT Tube light above mirror) / Havells / Eqv.	Nos	14	1150		16,100
						Rupees One Thousand One Hundreds Fifty Only
225.6	30W LED Street Light fixtures Philips Cat No. BRP331 LED42 CW R5N PC PSU S1 SPD 4200 Lumen (for wall bracket)	Nos	13	5900		76,700
						Rupees Five Thousand Nine Hundreds Only
225.7	80W Midbay Light fixtures Philips Cat No.BY286VLED100S CW M3-S60 PSU FG WH V-2 (Entrance Porch)	Nos	3	5900		17,700
						Rupees Five Thousand Nine Hundreds Only
225.8	LED Flood Light cat No.BVP282 LED120 CW FG SY5WB 70W PSU 12000 Lm @ 100W LED light fixture / Havells / Eqv.	Nos	5	14800		74,000
						Rupees Fourteen Thousand Eight Hundreds Only
225.9	Bajaj / Philips LED Cove Light @ 5 Watt each meter	Nos	10	1180		11,800
						Rupees One Thousand One Hundreds Eighty Only
226	SUPPLY & INSTLLATION OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS & BIRD SCREEN) / WALL BRACKET FAN					
226.1	600 mm sweep, 1440 rpm Heavy Duty Air Circulators with bracket arm (Almonard Make). (for security hall)	Nos	16	6900		1,10,400
						Rupees Six Thousand Nine Hundreds Only
226.2	450 mm dia 1450 rpm Wall bracket fan (Cabin wall mounted fan).	Nos	18	3950		71,100
						Rupees Three Thousand Nine Hundreds Fifty Only
226.3	250 mm dia plastic body ventilation fan	Nos	8	1950		15,600
						Rupees One Thousand Nine Hundreds Fifty Only
227	GI PIPE FOR WALL BRACKET LIGHT : Supply, receiving, storing, handling, laying, testing & commissioning of 40 mm. dia & 0.6 M long GI pipe (minimum medium class, ISI marked) for Wall bracket light	Nos	16	1450		23,200
						Rupees One Thousand Four Hundreds Fifty Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.
WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
228	POLES MOUNTING BOXES : Supply and fixing of Thermoplastic type water proof pole mounting boxes of size 200 x 160 mm x 98mm, with cover and Gasket with cable entry knock outs, 4 way 20A connectors & 6A SP MCB mounted inside box etc.as per design including mounting arrangements. (Box depth 98mm)(For Wall Bracket Light)	Nos	16.	1950		31,200 Rupees One Thousand Nine Hundreds Fifty Only
229	DISTRIBUTION BOARDS (DB'S) Supplying, receiving, storing, handling erecting, testing and commissioning of cabinet type of original factory fabricated double Metal door distribution board 1.6mm sheet Steel rust inhibited and Powder coated painted Metal sheet as per IS-8623 - I & III / IEC 61439-3 and comprising of incoming RCBO/ RCCB/ MCB, outgoing MCBs' copper bus bar, double Metal door, neutral bus bar or links, top & bottom detachable conduit entry plates, earthing terminals with bolts, grouting etc. complete as per specifications (Class of Protection IP-43).					
229.1	12 ways TPND B Enclosure (MCB's / RCCB's considered in DSR Item)	Nos	2	1450		2,900 Rupees One Thousand Four Hundreds Fifty Only
230	METAL CLAD SOCKETS Supply, installation, testing & commissioning of 3 Pin 20A SP Metal Clad socket with 25A DP MCB, in suitable MS box, plug top with chain & earth pin as required For Security Checking Hall area (wiring shall be paid extra)	Nos	6	5351		32,106 Rupees Five Thousand Three Hundreds Fifty One Only
231	MOULDED SOCKETS Supply, installation, testing & commissioning of 3Pin 32A SP Moulded socket (IP65) with 40A DP RCCB (100mA), in suitable MS box, plug top with chain & earth pin as required For 2 TON AC (wiring shall be paid extra)	Nos	16	8400		1,34,400 Rupees Eight Thousand Four Hundreds Only
232	MOULDED SOCKETS Supply, installation, testing & commissioning of 3Pin 25A SP Moulded socket (IP65) with 25A DP RCCB (100mA), in suitable MS box, plug top with chain & earth pin as required For 1.5 TON AC (wiring shall be paid extra).	Nos	4	8700		34,800 Rupees Eight Thousand Seven Hundreds Only
233	DANGER BOARD/SHOCK RESTORATION CHART ETC. Supply & laying of insulating mates as per IS15652-2006 (1.0 m wide)					
233.1	Suitable for 1.1 KV Class-A (2.0 mm thick) insulating mate	RM	5	850		4,250 Rupees Eight Hundreds Fifty Only
233.2	Supply of First Aid Box	Set	1	1500		1,500 Rupees One Thousand Five Hundreds Only
234	CABLE RACK Supply, fabricated and fix cable rack with MS channels, angles, plates, etc. as per design including anchor bolts/dash fasteners/bolts/nut etc. as required complete with painting with one coat of primer and two coats of synthetic enamel paint as per approved shade.	Kg.	250	105		26,250 Rupees One Hundreds Five Only
235	EARTHING PAD Supply & fixing of Earth pad in MS painted box with 2Nos. 40x6mm copper Bus Bar, links / insulators and covered in glass cover(450mm X 450mm).	Set	2	2400		4,800 Rupees Two Thousand Four Hundreds Only
236	Supply & fixing of following fire extinguishers complete with high pressure control valve, rubber braided discharge hose. Body of fire extinguishers should be CCE approved with IS: 2878 marking. The valve shall conform to IS: 3224.					
236.1	4.5 KG CO2 Fire Extinguishers.	Nos	2	19000		38,000 Rupees Nineteen Thousand Only
236.2	9 KG ABC Dry powder (Mono Ammonium phosphate) based Fire Extinguishers.	Nos	2	21000		42,000 Rupees Twenty One Thousand Only
236.3	25 liters with Trolly foam type Fire Extinguishers. (For DG Set)	Nos	1	30000		30,000 Rupees Thirty Thousand Only
237	OUT DOOR LIGHTING POLES : Supply, receiving, storing, handling, transporting, erecting, testing and commissioning of 3.0mm. thick hot dip galvanised octagonal poles (O/D of pole 130mm A/F at bottom and 70mm A/F at top) & built -in junction box with door suitable for mounting SP MCB, including supply of MCB and N.link. GI pole shall be with 260 X 260 X 16 mm thick base plate and 4 Nos. holes including foundation bolts of 24mm dia manufactured from special steel along with nuts,washer, anchor plates & templates. Scope shall also include receiving, storing, handling construction of suitable shallow foundation with 1:2:4 concrete with 4 Nos. bolts & double wall corrugated HDPE pipe 50/39mm dia for in & out of cable grouted in concrete with all material & labour & erection, testing & commissioning etc.as per technical specification.					
237.1	8.0 Meter High hot dip galvanised octagonal poles with 1000 mm long Single arm bracket made up of 60 mm dia GI pipe.	Nos	20	15000		3,00,000 Rupees Fifteen Thousand Only
237.2	8.0 Meter High hot dip galvanised octagonal poles with 1000 mm long Double arm bracket made up of 60 mm dia GI pipe.	Nos	10	16000		1,60,000 Rupees Sixteen Thousand Only
238	JUNCTION BOXES FOR FLOOD LIGHT ON GROUND (IP-67): Supply,installation,testing & commissioning of 98x98x61 thermoplastic cable junction box (IP67) with cover on truss (on Ground) complete with terminal /connector set for 2.5/4 sq.mm Cu cable for flood light fixture as required.	Nos	4	1250		5,000 Rupees One Thousand Two Hundreds Fifty Only
239	L.T. CABLES : Supply, receiving, storing, handling, laying, testing & commissioning of the following 1100 Volt PVC insulated, PVC sheathed / XLPE aluminium armoured / copper flexible cable as per IS 1554 Part -I / 7098 Part-I in under ground trenches including excavation of trenches providing and cushioning with burnt bricks protection back filling and consolidation of trenches/ existing pipe and providing fixing cable marker as per specification.					
239.1	4 core 16 sq.mm Alu. Armd Cable	RM	270	155		41,850 Rupees One Hundreds Fifty Five Only
239.2	4 core 10 sq.mm Alu. Armd Cable	RM	215	165		35,475 Rupees One Hundreds Sixty Five Only
239.3	4 core 6 sq.mm Alu. Armd Cable	RM	180	195		35,100 Rupees One Hundreds Ninety Five Only
239.4	4 core 4sq.mm Alu. Armd Cable	RM	200	160		32,000 Rupees One Hundreds Sixty Only
239.5	3 core 6sq.mm Alu. Armd Cable	RM	115	115		13,225 Rupees One Hundreds Fifteen Only
239.6	4 core 4sq.mm Cu. Armd Cable	RM	555	280		1,55,400 Rupees Two Hundreds Eighty Only



Name of Work: Construction of Main Guard House-II (MGH-II) for RAPS 5 to 8 and allied works at various locations of RR site.

WO / SOQR Number : 78278

Agency Name : M/s MADHUSUDAN ENGINEERING CO.

Item No	Description	Unit	Quantity	Rate in ₹	Rebate in %	Amount in ₹
Rate in Words						
240	LUMINAIRES : Supply ,recieving, storing, handling, double handling, hoisting to required level, trasnport to exact location ,assembling, erecting, testing & commissioning of the following outdoor luminaires comprising of control gear box, lamp etc. including all fixing and mounting arrangement.					
240.1	Philips BRP333 LED110 CW R5C FG PSU S1 SPD3 (90W, 11000 lumen) control gear as required.(For 8.0M POLE)	Nos	40	5400		2,16,000
						Rupees Five Thousand Four Hundreds Only
240.2	10W BOLLARD LIGHT FIXTURE - BCP100 LED CW 10W PSU GR M	Nos	74	6950		5,14,300
						Rupees Six Thousand Nine Hundreds Fifty Only
240.3	LED Flood Light cat No. BVP282 LED120 CW FG SY5WB 100W PSU 12000 Lm @ 100W LED light fixture/Havells.	Nos	4	7850		31,400
						Rupees Seven Thousand Eight Hundreds Fifty Only
241	WIRING FOR LUMINAIRES: Supplying, wiring, testing and commissioning of wiring for pole luminaire using 2 x 2.5 sq. mm. copper conductor PVC insulated wiring cable and 1x16 SWG GI wire drawn inside the pole. Wiring shall commence from the pole mounting box to the luminaire					
241.1	For 8.0 mtr. Single arm Pole	Set	20	540		10,800
						Rupees Five Hundreds Forty Only
241.2	For 8.0 mtr. Double arm Pole	Set	10	570		5,700
						Rupees Five Hundreds Seventy Only
241.3	For 1.0 mtr High Bollard Light	Set	74	140		10,360
						Rupees One Hundreds Forty Only
241.4	For Flood Light	Set	4	160		640
						Rupees One Hundreds Sixty Only
242	CABLE END TERMINATIONS' Supply and Provide end terminations for following cable using crimping sockets, double brass compression glands, etc. as required.(Aluminium/ Copper Cables)					
242.1	4 core 16 sq.mm Alu. Armd Cable	Nos	18	540		9,720
						Rupees Five Hundreds Forty Only
242.2	4 core 10 sq.mm Alu. Armd Cable	Nos	14	390		5,460
						Rupees Three Hundreds Ninety Only
242.3	4 core 6 sq.mm Alu. Armd Cable	Nos	12	400		4,800
						Rupees Four Hundreds Only
242.4	4 core 4sq.mm Alu. Armd Cable	Nos	14	370		5,180
						Rupees Three Hundreds Seventy Only
242.5	3 core 6sq.mm Alu. Armd Cable	Nos	10	315		3,150
						Rupees Three Hundreds Fifteen Only
242.6	4 core 4sq.mm Cu. Armd Cable	Nos	148	210		31,080
						Rupees Two Hundreds Ten Only
243	MAINTENANCE FREE EARTHING Supply, installation, testing and commissioning of 10ft. CPRI Testeed, UL listed MS rod of 14.2 mm dia copper bonded with 250 micron steel. The earthing rod shall be interconnected to grid mesh with in soil stainless steel clamp. also include heavy duty inspection chamber which can handle 5 kN point load. Earth enhancing mineral (PROCEM) compound 25 kg tested for Leaching & TCLP with NABL accredited lab. The systems is conforming to IS 3043, IS / IEC 62305, IEC 61643-5-54, UL 467, the rod tested dimention, marking, tensile strength, salt mist, coating thickness, electrical resistivity test before and after corresion test etc as per IEC 62561-2.	Nos	6	70000		4,20,000
						Rupees Seventy Thousand Only

Note: All Item Rates are considered to be in Indian Rupees unless otherwise explicitly specified and in whcih case shall be always converted appropriately to arrive at the amount in Indian Rupees.

Work Order Total ₹ 10,79,99,224.00

Overall Rebate (%) 0

Work Order Value After Overall Rebate in Figure ₹ 10,79,99,224.00

Work Order Value After Overall Rebate in Words Rupees Ten Crore Seventy Nine Lakh Ninety Nine Thousand Two Hundreds Twenty Four Only

(सत्येंद्र कुमार चौरसिया S.K. Chourasia)
अपर मुख्य अभियंता(सिविल) ACE(C), RRS-7&8
वास्ते एवं कृते For & on behalf of the
न्यूक्लियर पावर कोर्पोरेशन ऑफ़ इंडिया लिमिटेड
Nuclear Power Corporation of India Limited