



इरकॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)



An integrated Engineering and Construction Company

Banihal Office:
IRCON Project Office
Vill- Krawah, Post- Banihal
Distt- Ramban, J&K- 182146
Tel: 01998-255780, Fax: 01998-255708

Jammu Office:
USBRL Project Office
Satyam Complex, Marble Market
Jammu- 180011
Tel: 0191-2484842, Fax: 0191-2484812

No.: IRCON/J&K-Cell/JAT/15/1014/Misc. Civil Works, E&M/PKG-1/ 2049

Dated 21-04-2023

M/s NMC Infra Private Limited,
H No. 7-94/1, Peerzadiguda Village,
Shankar Nagar, Narapally, Ghatkesar Mandal,
Hyderabad- 500039
E-mail: nmcinfrapvtltd@yahoo.in

(Kind Attention: Sh. Rudraraju Murali)

Sub: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-74R in Banihal-Khari Section of USBRL Project of Northern Railways (**Package-1**).

Reg: Letter of Acceptance.

Ref:

1. e-Tender ID: 2023_IRCON_149981_1 dated 23-03-2023.
2. Corrigendum-1 dated 24-03-2023.
3. Corrigendum-2 dated 24-03-2023.
4. Corrigendum-3 dated 03-04-2023.
5. Corrigendum-4 dated 03-04-2023.
6. Technical & Financial Bid opened on 06-04-2023.

Reference above, the competent authority for and on behalf of IRCON INTERNATIONAL LIMITED is pleased to accept your offer for the work of "Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-74R in Banihal-Khari Section of USBRL Project of Northern Railways (**Package-1**)" as per terms and conditions detailed below:

- 1) **Total Price:** Detailed Bill of Quantity (BOQ) is attached as **Annexure-A** and as per Annexure-A total value of the order comes out to INR 47,96,794.00 (Rupees Forty-Seven Lakhs Ninety-Six Thousand Seven Hundred and Ninety-Four only).
- 2) **Taxes, Duties & Levies etc:** The contract prices indicated in **Annexure-A** is inclusive of all types of taxes, duties and levies imposed by Central/State Govt. and local bodies such as IGST/CGST/SGST/UTGST, Compensation Cess, Labour Cess, Custom duty, royalties and other levies and shall be governed in accordance with Clause No. 8 of Special Conditions of Contract (SCC) of the tender document.
- 3) **Date of Commencement of the contract:** Date of issue of this Letter of Acceptance shall be treated as the date of commencement of the contract. The contractor shall be expected to mobilize to the site of works and commence execution of the works within 10 (Ten) days from the date of issue of Acceptance Letter by IRCON.



- 4) **Completion Period:** The work is required to be completed within 03 (THREE) months from the date of issue of Letter of Acceptance (LOA) as per the following milestone chart:

Activity ID	Stage	Calendar Days
LOA	Issue of Letter of Acceptance	D
KD-01	Mobilization of resources	D+10
KD-02	Completion of 50% of works	D+45
KD-03	Completion of 100% of works	D+90

In case of any delay in the completion period, the extension of the same shall be dealt as per Clause No. 17A and 17B of Indian Railways Standard General Conditions of the Contract (April-2022).

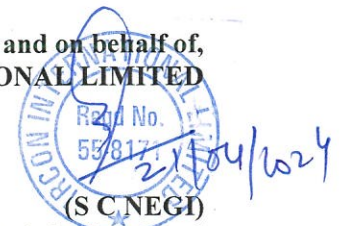
- 5) **Performance Security & Retention Money:** In terms of Clause No. 17 and 18 of Special Conditions of Contract (SCC), **M/s NMC Infra Private Limited** shall submit the Performance Security amounting to 03% (THREE PERCENT) of the contract value (INR 47,96,794.00) i.e., INR 1,43,904.00 (Rupees One Lakh Forty-Three Thousand Nine Hundred and Four only). The total Performance Security shall be in the form of irrevocable bank guarantee from a schedule bank in India and shall be submitted within 21 days of issue of this LOA to "The General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K". The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. For further details on performance security and retention money, Clause No. 17 and 18 of Special Conditions of Contract may be referred.
- 6) **Contract Agreement:** In terms of Clause No. 28.5 of Special Conditions of Contract (SCC), **M/s NMC Infra Private Limited** shall enter into a Contract Agreement with "General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K" within 28 days of issue of this LOA.

This letter will constitute a legal and binding contract between IRCON and M/s NMC Infra Private Limited till such time the formal contract agreement is signed.

This LOA is a brief of essential conditions of the tender. For details, original tender document and corrigendum thereto may be referred. All terms and conditions shall be as per the tender documents and subsequent corrigendum issued.

This LOA is being issued in duplicate. You are requested to return one copy duly signed and stamped in token of your acceptance at the earliest.

For and on behalf of,
IRCON INTERNATIONAL LIMITED



(S C NEGI)
General Manager, Elect & Project Head
USBRL Project, Jammu

Cc:

- | | | |
|------------------------------------|---|------------------------------|
| 1. Executive Director (Electrical) | : | For kind information please. |
| 2. CGM/Elect/USBRL | : | For kind information please. |
| 3. CGM/Banihal | : | For kind information please. |
| 4. CGM/Sangaldan | : | For kind information please. |
| 5. GM/Finance | : | For kind information please. |



Annexure-A: BILL OF QUANTITY (BOQ)
PACKAGE-1



Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-74R in Banihal-Khari Section of USBRL Project of Northern Railways.

S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
1		EARTH WORK: Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m				
	2.10	All kinds of soil:				
	2.10.1	Pipes, cables etc, not exceeding 80 mm dia.	metre	₹ 225.15	15.00	₹ 3,377.25
a	2.10.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	₹ 367.70	20.00	₹ 7,354.00
b	2.10.1.2	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	₹ 574.03	20.00	₹ 11,480.60
c	2.10.1.3	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials,returning the soil 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 :				
	2.13	Ordinary rock:				
	2.13.1	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	₹ 822.30	10.00	₹ 8,223.00
d	2.13.1.2	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 946.22	20.00	₹ 18,924.40
e	2.13.1.3	Hard rock (requiring blasting)				
	2.13.2	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,334.92	10.00	₹ 13,349.20
f	2.13.2.3	Hard rock (blasting prohibited)				
g	2.13.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,824.16	10.00	₹ 18,241.60
2	2.13.3.3	PRE-CAST RCC:				
		Providing, hosting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-II)) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	₹ 10,855.27	20.00	₹ 2,17,105.40
a	5.15	RCC CAST IN SITU:				
		Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
3	5.1	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	₹ 7,369.03	12.00	₹ 88,428.36
a	5.1.2	FORM WORK:				
		Centering and shuttering including strutting, propping etc. and removal of form for				
4	5.9	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	₹ 535.97	300.00	₹ 1,60,791.00
a	5.9.5	STEEL REINFORCEMENT:				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level	kg	₹ 78.98	2,000.00	₹ 1,57,960.00
a	5.22A	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	₹ 222.94	25.00	₹ 5,573.50
b	5.22A.6	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	sqm			
6	5.23	BRICK WORK:				
		Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
a	6.4	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	₹ 7,499.34	50.00	₹ 3,74,967.00
b	6.4.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	₹ 919.00	20.00	₹ 18,380.00
7	6.13.1	STEEL WORK:				
		Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	₹ 81.98	50.00	₹ 4,099.00
a	10.1	CEMENT PLASTER (IN COARSE SAND):				
8	13.4	12 mm cement plaster of mix				





Annexure-A: BILL OF QUANTITY (BOQ)
PACKAGE-1



Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-74R in Banihal-Khari Section of USBRL Project of Northern Railways.

S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
a	13.4.1	1:4 (1 cement: 4 coarse sand)	sqm	₹ 270.69	900.00	₹ 2,43,621.00
b	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
	13.5.1	1:4 (1 cement: 4 coarse sand)	sqm	₹ 312.33	900.00	₹ 2,81,097.00
9		CONCRETE:				
	4.2	Providing and laying in position ready mixed or site batched design mix concrete for plain 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 heads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
a	4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg/cum	cum	₹ 8,631.49	20.00	₹ 1,72,629.80
10		ALUMINIUM WORK:				
	21.1	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) :				
a	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15	kg	₹ 382.32	375.00	₹ 1,43,370.00
b	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	₹ 410.82	19.00	₹ 7,805.58
	Non-DSR Item					
11		Supply and Erection of Fire rated AAC Block (Grade 1) of size 600x200x200mm and 600x200x150mm with filler material and any other associated item required for the completion of work.	cum	₹ 7,868.88	200.00	₹ 15,73,776.00
(A)	(A)	Basic Amount excluding cess and GST				₹ 35,30,554.00
(B)	(B)	Basic Amount including cess @ 1% and excluding GST				₹ 35,65,860.00
(C)	(C)	Quoted Offer @ 14% ABOVE on (A)				₹ 4,99,220.00
(D)	(D)	Sub-Total (A + B)				₹ 40,65,080.00
(E)	(E)	ADD GST @ 18% on (C)				₹ 7,31,714.00
		Total Value (inclusive of all taxes and duties)				₹ 47,96,794.00





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An integrated Engineering and Construction Company

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Satyam Complex, Marble Market
Jammu- 180011
Tel: 0191-2484842, Fax: 0191-2484812

No.: IRCON/J&K-Cell/JAT/15/1014/Misc. Civil Works, E&M/PKG-2/2050

Dated 21-04-2023

M/s Rishi Construction Company,
ES-152, Sector-E, Sainik Colony,
Jammu- 180011
UT of Jammu & Kashmir
E-mail: rishiconstructionco01@gmail.com

(Kind Attention: Sh. Vijay Kumar)

Sub: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-49 in Khari-Sumber Section of USBRL Project of Northern Railways (**Package-2**).

Reg: Letter of Acceptance.

Ref:

1. e-Tender ID: 2023_IRCON_149981_1 dated 23-03-2023.
2. Corrigendum-1 dated 24-03-2023.
3. Corrigendum-2 dated 24-03-2023.
4. Corrigendum-3 dated 03-04-2023.
5. Corrigendum-4 dated 03-04-2023.
6. Technical & Financial Bid opened on 06-04-2023.

Reference above, the competent authority for and on behalf of IRCON INTERNATIONAL LIMITED is pleased to accept your offer for the work of "Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-49 in Khari-Sumber Section of USBRL Project of Northern Railways (**Package-2**)" as per terms and conditions detailed below:

- 1) **Total Price:** Detailed Bill of Quantity (BOQ) is attached as **Annexure-A** and as per Annexure-A total value of the order comes out to INR 48,65,073.00 (Rupees Forty-Eight Lakhs Sixty-Five Thousand and Seventy-Three only).
- 2) **Taxes, Duties & Levies etc:** The contract prices indicated in **Annexure-A** is inclusive of all types of taxes, duties and levies imposed by Central/State Govt. and local bodies such as IGST/CGST/SGST/UTGST, Compensation Cess, Labour Cess, Custom duty, royalties and other levies and shall be governed in accordance with Clause No. 8 of Special Conditions of Contract (SCC) of the tender document.
- 3) **Date of Commencement of the contract:** Date of issue of this Letter of Acceptance shall be treated as the date of commencement of the contract. The contractor shall be expected to mobilize to the site of works and commence execution of the works within 10 (Ten) days from the date of issue of Acceptance Letter by IRCON.



- 4) **Completion Period:** The work is required to be completed within 03 (THREE) months from the date of issue of Letter of Acceptance (LOA) as per the following milestone chart:

Activity ID	Stage	Calendar Days
LOA	Issue of Letter of Acceptance	D
KD-01	Mobilization of resources	D+10
KD-02	Completion of 50% of works	D+45
KD-03	Completion of 100% of works	D+90

In case of any delay in the completion period, the extension of the same shall be dealt as per Clause No. 17A and 17B of Indian Railways Standard General Conditions of the Contract (April-2022).

- 5) **Performance Security & Retention Money:** In terms of Clause No. 17 and 18 of Special Conditions of Contract (SCC), **M/s Rishi Construction Company** shall submit the Performance Security amounting to 03% (THREE PERCENT) of the contract value (INR 48,65,073.00) i.e., INR 1,45,952.00 (Rupees One Lakh Forty-Five Thousand Nine Hundred and Fifty-Two only). The total Performance Security shall be in the form of irrevocable bank guarantee from a schedule bank in India and shall be submitted within 21 days of issue of this LOA to "The General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K". The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. For further details on performance security and retention money, Clause No. 17 and 18 of Special Conditions of Contract may be referred.
- 6) **Contract Agreement:** In terms of Clause No. 28.5 of Special Conditions of Contract (SCC), **M/s Rishi Construction Company** shall enter into a Contract Agreement with "General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K" within 28 days of issue of this LOA.

This letter will constitute a legal and binding contract between IRCON and M/s Rishi Construction Company till such time the formal contract agreement is signed.

This LOA is a brief of essential conditions of the tender. For details, original tender document and corrigendum thereto may be referred. All terms and conditions shall be as per the tender documents and subsequent corrigendum issued.

This LOA is being issued in duplicate. You are requested to return one copy duly signed and stamped in token of your acceptance at the earliest.

For and on behalf of,
IRCON INTERNATIONAL LIMITED

(SC NEGI)
General Manager, Elect & Project Head
USBRL Project, Jammu

Cc:

- | | | |
|------------------------------------|---|------------------------------|
| 1. Executive Director (Electrical) | : | For kind information please. |
| 2. CGM/Elect/USBRL | : | For kind information please. |
| 3. CGM/Banihal | : | For kind information please. |
| 4. CGM/Sangaldan | : | For kind information please. |
| 5. GM/Finance | : | For kind information please. |

Annexure-A: BILL OF QUANTITY (BOQ)							
PACKAGE-2							
Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-49 in Khari-Sumber Section of USBRL Project of Northern Railways.							
S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)	
a	13.4	12 mm cement plaster of mix					
	13.4.1	1:4 (1 cement: 4 coarse sand)	sqm	₹ 270.69	900.00	₹ 2,43,621.00	
b	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:					
	13.5.1	1:4 (1 cement: 4 coarse sand)	sqm	₹ 312.33	900.00	₹ 2,81,097.00	
9		CONCRETE:					
	4.2	Providing and laying in position ready mixed or site batched design mix cement concrete for plain 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 and finishing as per direction of the engineer-in-charge; for the following grades of concrete.					
a	4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	₹ 8,631.49	20.00	₹ 1,72,629.80	
10		ALUMINIUM WORK:					
	21.1	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) :					
a	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15	kg	₹ 382.32	500.00	₹ 1,91,160.00	
b	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	₹ 410.82	25.00	₹ 10,270.50	
	Non-DSR Item						
11		Supply and Erection of Fire rated AAC Block (Grade 1) of size 600x200x200mm and 600x200x150mm with filler material and any other associated item required for the completion of work.	cum	₹ 7,868.88	200.00	₹ 15,73,776.00	
(A)		Basic Amount excluding cess and GST				₹ 35,80,809.00	
(B)		Basic Amount including cess @ 1% and excluding GST				₹ 36,16,617.00	
(C)		Quoted Offer @ 14% ABOVE on (A)				₹ 5,06,326.00	
(D)		Sub-Total (A + B)				₹ 41,22,943.00	
(E)		ADD GST @ 18% on (C)				₹ 7,42,130.00	
		Total Value (inclusive of all taxes and duties)				₹ 48,65,073.00	



Annexure-A: BILL OF QUANTITY (BOQ)



PACKAGE-2

Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-49 in Khari-Sumber Section of USBRL Project of Northern Railways.

S No	Civil DSR 2021 Item No.	Description of item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
1		EARTH WORK:				
	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m				
	2.10.1	All kinds of soil:				
a	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	metre	₹ 225.15	15.00	₹ 3,377.25
b	2.10.1.2	Pipes, cables etc, exceeding 80 mm dia. but not exceeding 300 mm dia	metre	₹ 367.70	20.00	₹ 7,354.00
c	2.10.1.3	Pipes, cables etc, exceeding 300 mm dia but not exceeding 600 mm	metre	₹ 574.03	20.00	₹ 11,480.60
	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil 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 :				
	2.13.1	Ordinary rock:				
d	2.13.1.2	Pipes, cables etc, exceeding 80 mm dia but not exceeding 300 mm dia	metre	₹ 822.30	10.00	₹ 8,223.00
e	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 946.22	20.00	₹ 18,924.40
	2.13.2	Hard rock (requiring blasting)				
f	2.13.2.3	Pipes, cables etc, exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,334.92	10.00	₹ 13,349.20
	2.13.3	Hard rock (blasting prohibited)				
g	2.13.3.3	Pipes, cables etc, exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,824.16	10.00	₹ 18,241.60
2		PRE-CAST RCC:				
a	5.15	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-II) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	₹ 10,855.27	20.00	₹ 2,17,105.40
3		RCC CAST IN SITU:				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
a	5.1.2	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	₹ 7,369.03	12.00	₹ 88,428.36
4		FORM WORK:				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
a	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	₹ 535.97	300.00	₹ 1,60,791.00
5		STEEL REINFORCEMENT:				
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth leve				
a	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	₹ 78.98	2,000.00	₹ 1,57,960.00
b	5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	sqm	₹ 222.94	25.00	₹ 5,573.50
6		BRICK WORK:				
	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
a	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	₹ 7,499.34	50.00	₹ 3,74,967.00
b	6.13.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	₹ 919.00	20.00	₹ 18,380.00
7		STEEL WORK:				
a	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	₹ 81.98	50.00	₹ 4,099.00
8		CEMENT PLASTER (IN COARSE SAND):				





इरकॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)



An integrated Engineering and Construction Company

Banihal Office:
IRCON Project Office
Vill- Krawah, Post- Banihal
Distt- Ramban, J&K- 182146
Tel: 01998-255780, Fax: 01998-255708

Jammu Office:
USBRL Project Office
Satyam Complex, Marble Market
Jammu- 180011
Tel: 0191-2484842, Fax: 0191-2484812

No.: IRCON/J&K-Cell/JAT/15/1014/Misc. Civil Works, E&M/PKG-3/2651

Dated 21-04-2023

M/s Sunil Kashyap,
Kuchi Chawani,
Jammu, UT of Jammu & Kashmir
E-mail: sunilkashvap524@gmail.com

(Kind Attention: Sh. Sunil Kashyap)

Sub: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-48 in Sumber-Sangaldan Section of USBRL Project of Northern Railways (**Package-3**).

Reg: Letter of Acceptance.

Ref:

1. e-Tender ID: 2023_IRCON_149981_1 dated 23-03-2023.
2. Corrigendum-1 dated 24-03-2023.
3. Corrigendum-2 dated 24-03-2023.
4. Corrigendum-3 dated 03-04-2023.
5. Corrigendum-4 dated 03-04-2023.
6. Technical & Financial Bid opened on 06-04-2023.

Reference above, the competent authority for and on behalf of IRCON INTERNATIONAL LIMITED is pleased to accept your offer for the work of "Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-48 in Sumber-Sangaldan Section of USBRL Project of Northern Railways (**Package-3**)" as per terms and conditions detailed below:

- 1) **Total Price:** Detailed Bill of Quantity (BOQ) is attached as **Annexure-A** and as per Annexure-A total value of the order comes out to INR.47,96,794.00 (Rupees Forty-Seven Lakhs Ninety-Six Thousand Seven Hundred and Ninety-Four only).
- 2) **Taxes, Duties & Levies etc:** The contract prices indicated in **Annexure-A** is inclusive of all types of taxes, duties and levies imposed by Central/State Govt. and local bodies such as IGST/CGST/SGST/UTGST, Compensation Cess, Labour Cess, Custom duty, royalties and other levies and shall be governed in accordance with Clause No. 8 of Special Conditions of Contract (SCC) of the tender document.
- 3) **Date of Commencement of the contract:** Date of issue of this Letter of Acceptance shall be treated as the date of commencement of the contract. The contractor shall be expected to mobilize to the site of works and commence execution of the works within 10 (Ten) days from the date of issue of Acceptance Letter by IRCON.



- 4) **Completion Period:** The work is required to be completed within 03 (THREE) months from the date of issue of Letter of Acceptance (LOA) as per the following milestone chart:

Activity ID	Stage	Calendar Days
LOA	Issue of Letter of Acceptance	D
KD-01	Mobilization of resources	D+10
KD-02	Completion of 50% of works	D+45
KD-03	Completion of 100% of works	D+90

In case of any delay in the completion period, the extension of the same shall be dealt as per Clause No. 17A and 17B of Indian Railways Standard General Conditions of the Contract (April-2022).

- 5) **Performance Security & Retention Money:** In terms of Clause No. 17 and 18 of Special Conditions of Contract (SCC), **M/s Sunil Kashyap** shall submit the Performance Security amounting to 03% (THREE PERCENT) of the contract value (INR 47,96,794.00) i.e., INR 1,43,904.00 (Rupees One Lakh Forty-Three Thousand Nine Hundred and Four only). The total Performance Security shall be in the form of irrevocable bank guarantee from a schedule bank in India and shall be submitted within 21 days of issue of this LOA to "The General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K". The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. For further details on performance security and retention money, Clause No. 17 and 18 of Special Conditions of Contract may be referred.

- 6) **Contract Agreement:** In terms of Clause No. 28.5 of Special Conditions of Contract (SCC), **M/s Sunil Kashyap** shall enter into a Contract Agreement with "General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K" within 28 days of issue of this LOA.

This letter will constitute a legal and binding contract between IRCON and M/s Sunil Kashyap till such time the formal contract agreement is signed.

This LOA is a brief of essential conditions of the tender. For details, original tender document and corrigendum thereto may be referred. All terms and conditions shall be as per the tender documents and subsequent corrigendum issued.

This LOA is being issued in duplicate. You are requested to return one copy duly signed and stamped in token of your acceptance at the earliest.

For and on behalf of,
IRCON INTERNATIONAL LIMITED



(S C NEGI)
General Manager, Elect & Project Head
USBRL Project, Jammu

Cc:

- | | | |
|------------------------------------|---|------------------------------|
| 1. Executive Director (Electrical) | : | For kind information please. |
| 2. CGM/Elect/USBRL | : | For kind information please. |
| 3. CGM/Banihal | : | For kind information please. |
| 4. CGM/Sangaldan | : | For kind information please. |
| 5. GM/Finance | : | For kind information please. |



Annexure-A: BILL OF QUANTITY (BOQ)
PACKAGE-3



Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-48 in Sumer-Sangaldan Section of USBRL Project of Northern Railways.

S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
a	13.4	12 mm cement plaster of mix				
a	13.4.1	1:4 (1 Cement: 4 coarse sand)	sqm	₹ 270.69	900.00	₹ 2,43,621.00
b	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
b	13.5.1	1:4 (1 cement: 4 coarse sand)	sqm	₹ 312.33	900.00	₹ 2,81,097.00
9		CONCRETE:				
	4.2	Providing and laying in position ready mixed or site batched design mix cement concrete for plain 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 and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
a	4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	₹ 8,631.49	20.00	₹ 1,72,629.80
10		ALUMINIUM WORK:				
	21.1	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, mited 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) :				
a	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15	kg	₹ 382.32	375.00	₹ 1,43,370.00
b	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	₹ 410.82	19.00	₹ 7,805.58
11	Non-DSR Item	Supply and Erection of Fire rated AAC Block (Grade 1) of size 600x200x200mm and 600x200x150mm with filler material and any other associated item required for the completion of work.	cum	₹ 7,868.88	200.00	₹ 15,73,776.00
(A)	(A)	Basic Amount excluding cess and GST				₹ 35,30,554.00
(B)	(B)	Quoted Offer @ 14% ABOVE on (A)				₹ 35,65,860.00
(C)	(C)	Sub-Total (A + B)				₹ 4,99,220.00
(D)	(D)	ADD GST @ 18% on (C)				₹ 40,65,080.00
(E)	(E)	Total Value (inclusive of all taxes and duties)				₹ 7,31,714.00
						₹ 47,96,794.00





Annexure-A: BILL OF QUANTITY (BOQ)
PACKAGE-3



Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnel T-48 in Sumer-Sargaldan Section of USBRL Project of Northern Railways.

S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
1		EARTH WORK:				
	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m				
	2.10.1	All kinds of soil:				
a	2.10.1.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	₹ 225.15	15.00	₹ 3,377.25
b	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	₹ 367.70	20.00	₹ 7,354.00
c	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	₹ 574.03	20.00	₹ 11,480.60
	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil 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 :				
	2.13.1	Ordinary rock:				
d	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	₹ 822.30	10.00	₹ 8,223.00
e	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 946.22	20.00	₹ 18,924.40
	2.13.2	Hard rock (requiring blasting)				
f	2.13.2.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,334.92	10.00	₹ 13,349.20
	2.13.3	Hard rock (blasting prohibited)				
g	2.13.3.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,824.16	10.00	₹ 18,241.60
2		PRE-CAST RCC:				
	5.15	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the 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	₹ 10,855.27	20.00	₹ 2,17,105.40
3		RCC CAST IN SITU:				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:				
a	5.1.2	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	₹ 7,369.03	12.00	₹ 88,428.36
4		FORM WORK:				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
a	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	₹ 535.97	300.00	₹ 1,60,791.00
5		STEEL REINFORCEMENT:				
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level				
a	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	₹ 78.98	2,000.00	₹ 1,57,960.00
b	5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	sqm	₹ 222.94	25.00	₹ 5,573.50
6		BRICK WORK:				
	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
a	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	₹ 7,499.34	50.00	₹ 3,74,967.00
b	6.13.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	₹ 919.00	20.00	₹ 18,380.00
7		STEEL WORK:				
	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	₹ 81.98	50.00	₹ 4,099.00
8		CEMENT PLASTER (IN COARSE SAND):				





इरकॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)



An integrated Engineering and Construction Company

Banihal Office:
IRCON Project Office
Vill- Krawah, Post- Banihal
Distt- Ramban, J&K- 182146
Tel: 01998-255780, Fax: 01998-255708

Jammu Office:
USBRL Project Office
Satyam Complex, Marble Market
Jammu- 180011
Tel: 0191-2484842, Fax: 0191-2484812

No.: IRCON/J&K-Cell/JAT/15/1014/Misc. Civil Works, E&M/PKG-4/ 2052

Dated 21-04-2023

M/s Rishi Construction Company,
ES-152, Sector-E, Sainik Colony,
Jammu- 180011
UT of Jammu & Kashmir
E-mail: rishiconstructionco01@gmail.com

(Kind Attention: Sh. Vijay Kumar)

Sub: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnels T-14 and T-15 in Sangaldan-Katra Section of USBRL Project of Northern Railways (**Package-4**).

Reg: Letter of Acceptance.

Ref:

1. e-Tender ID: 2023_IRCON_149981_1 dated 23-03-2023.
2. Corrigendum-1 dated 24-03-2023.
3. Corrigendum-2 dated 24-03-2023.
4. Corrigendum-3 dated 03-04-2023.
5. Corrigendum-4 dated 03-04-2023.
6. Technical & Financial Bid opened on 06-04-2023.

Reference above, the competent authority for and on behalf of IRCON INTERNATIONAL LIMITED is pleased to accept your offer for the work of "Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnels T-14 and T-15 in Sangaldan-Katra Section of USBRL Project of Northern Railways (**Package-4**)" as per terms and conditions detailed below:

- 1) **Total Price:** Detailed Bill of Quantity (BOQ) is attached as **Annexure-A** and as per Annexure-A total value of the order comes out to INR 50,02,190.00 (Rupees Fifty Lakhs Two Thousand One Hundred and Ninety only).
- 2) **Taxes, Duties & Levies etc:** The contract prices indicated in **Annexure-A** is inclusive of all types of taxes, duties and levies imposed by Central/State Govt. and local bodies such as IGST/CGST/SGST/UTGST, Compensation Cess, Labour Cess, Custom duty, royalties and other levies and shall be governed in accordance with Clause No. 8 of Special Conditions of Contract (SCC) of the tender document.
- 3) **Date of Commencement of the contract:** Date of issue of this Letter of Acceptance shall be treated as the date of commencement of the contract. The contractor shall be expected to mobilize to the site of works and commence execution of the works within 10 (Ten) days from the date of issue of Acceptance Letter by IRCON.



- 4) **Completion Period:** The work is required to be completed within 03 (THREE) months from the date of issue of Letter of Acceptance (LOA) as per the following milestone chart:

Activity ID	Stage	Calendar Days
LOA	Issue of Letter of Acceptance	D
KD-01	Mobilization of resources	D+10
KD-02	Completion of 50% of works	D+45
KD-03	Completion of 100% of works	D+90

In case of any delay in the completion period, the extension of the same shall be dealt as per Clause No. 17A and 17B of Indian Railways Standard General Conditions of the Contract (April-2022).

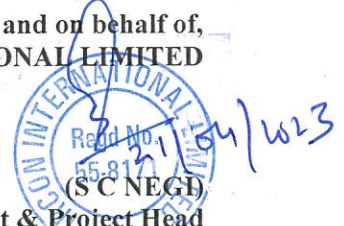
- 5) **Performance Security & Retention Money:** In terms of Clause No. 17 and 18 of Special Conditions of Contract (SCC), **M/s Rishi Construction Company** shall submit the Performance Security amounting to 03% (THREE PERCENT) of the contract value (INR 50,02,190.00) i.e., INR 1,50,066.00 (Rupees One Lakh Fifty Thousand and Sixty-Six only). The total Performance Security shall be in the form of irrevocable bank guarantee from a schedule bank in India and shall be submitted within 21 days of issue of this LOA to "The General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K". The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. For further details on performance security and retention money, Clause No. 17 and 18 of Special Conditions of Contract may be referred.
- 6) **Contract Agreement:** In terms of Clause No. 28.5 of Special Conditions of Contract (SCC), **M/s Rishi Construction Company** shall enter into a Contract Agreement with "General Manager (Electrical), IRCON INTERNATIONAL LIMITED, USBRL Project Office, Satyam Resort Complex, Marble Market, Trikuta Nagar, South Extension, Jammu- 180011, UT of J&K" within 28 days of issue of this LOA.

This letter will constitute a legal and binding contract between IRCON and M/s Rishi Construction Company till such time the formal contract agreement is signed.

This LOA is a brief of essential conditions of the tender. For details, original tender document and corrigendum thereto may be referred. All terms and conditions shall be as per the tender documents and subsequent corrigendum issued.

This LOA is being issued in duplicate. You are requested to return one copy duly signed and stamped in token of your acceptance at the earliest.

For and on behalf of,
IRCON INTERNATIONAL LIMITED


General Manager, Elect & Project Head
USBRL Project, Jammu

Cc:

- | | | |
|------------------------------------|---|------------------------------|
| 1. Executive Director (Electrical) | : | For kind information please. |
| 2. CGM/Elect/USBRL | : | For kind information please. |
| 3. CGM/Banihal | : | For kind information please. |
| 4. CGM/Sangaldan | : | For kind information please. |
| 5. GM/Finance | : | For kind information please. |

Annexure-A: BILL OF QUANTITY (BOQ)



PACKAGE-4

Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnels T-14 and T-15 in Sangaldan-Katra Section of USBRL Project of Northern Railways.

S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
a	13.4	12 mm cement plaster of mix				
	13.4.1	1:4 (1 cement: 4 coarse sand)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:	sqm	₹ 270.69	900.00	₹ 2,43,621.00
b	13.5.1	1:4 (1 cement: 4 coarse sand)	sqm	₹ 312.33	900.00	₹ 2,81,097.00
9		CONCRETE:				
	4.2	Providing and laying in position ready mixed or site batched design mix cement concrete for plain 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 and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
a	4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	₹ 8,631.49	20.00	₹ 1,72,629.80
10		ALUMINIUM WORK:				
	21.1	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).				
a	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15	kg	₹ 382.32	750.00	₹ 2,86,740.00
b	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	₹ 410.82	38.00	₹ 15,611.16
11	Non-DSR Item					
		Supply and Erection of Fire rated AAC Block (Grade 1) of size 600x200x200mm and 600x200x150mm with filler material and any other associated item required for the completion of work.	cum	₹ 7,868.88	200.00	₹ 15,73,776.00
(A)		Basic Amount excluding cess and GST				₹ 36,81,730.00
(B)		Basic Amount including cess @ 1% and excluding GST				₹ 37,18,547.00
(C)		Quoted Offer @ 14% ABOVE on (A)				₹ 5,20,597.00
(D)		Sub-Total (A + B)				₹ 42,39,144.00
(E)		ADD GST @ 18% on (C)				₹ 7,63,046.00
		Total Value (inclusive of all taxes and duties)				₹ 50,02,190.00



Annexure-A: BILL OF QUANTITY (BOQ)						
PACKAGE-4						
Name of work: Execution of miscellaneous civil works inside tunnels for Electro-Mechanical (E&M) System of Tunnels T-14 and T-15 in Sangaldan-Katra Section of USBRL Project of Northern Railways.						
S No	Civil DSR 2021 Item No.	Description of Item	UOM	Basic Rate (in INR)	Qty	Basic Amount (in INR)
1		EARTH WORK: Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m				
		All kinds of soil:				
a	2.10.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	₹ 225.15	15.00	₹ 3,377.25
b	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	₹ 367.70	20.00	₹ 7,354.00
c	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	₹ 574.03	20.00	₹ 11,480.60
		Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil 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 :				
2.13		Ordinary rock:				
d	2.13.1	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	₹ 822.30	10.00	₹ 8,223.00
e	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 946.22	20.00	₹ 18,924.40
		Hard rock (requiring blasting)				
f	2.13.2.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,334.92	10.00	₹ 13,349.20
		Hard rock (blasting prohibited)				
g	2.13.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	₹ 1,824.16	10.00	₹ 18,241.60
2		PRE-CAST RCC:				
a	5.15	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the 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	₹ 10,855.27	20.00	₹ 2,17,105.40
3		RCC CAST IN SITU:				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources)	cum	₹ 7,369.03	12.00	₹ 88,428.36
		FORM WORK:				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	₹ 535.97	300.00	₹ 1,60,791.00
		STEEL REINFORCEMENT:				
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth leve				
a	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	₹ 78.98	2,000.00	₹ 1,57,960.00
	5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	sqm	₹ 222.94	25.00	₹ 5,573.50
		BRICK WORK:				
	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	₹ 7,499.34	50.00	₹ 3,74,967.00
	6.13.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	₹ 919.00	20.00	₹ 18,380.00
		STEEL WORK:				
	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	₹ 81.98	50.00	₹ 4,099.00
8		CEMENT PLASTER (IN COARSE SAND):				

Signature Not Verified

Signature Not Verified

Digitally signed by JAYAKRISHNAN CHANDRASEKARAN NAIR
Date: 2023.05.09 12:50:14 IST
Location: eProcurement System for Central PSUs

