EXECUTIVE ENGINEER PROVINCIAL DIVISION PWD B&R BRANCH, 2nd FLOOR, PWD COMPLEX BATALA ROAD AMRITSAR.

Tel/Fax No 0183-2274881
Email Id eepdasrpwdpb@gmail.com

To

M/s Narula Buildwel pvt Ltd,
26-Sanjay Gandhi Market,
Goal Bagh, Amritsar.

Memo No. 2792 **Dated** 18/12/2023

Subject: **Upgradation of Amritsar Majitha Fatehgarh Churian Road MDR-64 under CRIF Scheme.**

Amount: Rs.10,31,75,017/-

This is to notify that your bid dated 27.10.2023 for execution of the Upgradation of Amritsar Majitha Fatehgarh Churian Road MDR-64 approved vide Chief Engineer (North) Punjab PWD (B&R), Patilala Momo No.4100/CRIF Dated 10.11.2023 received through Superintending Engineer, Construction Circle, PWD B&R Br, Amritsar Ends No. SPL1-2 Dated 14.11.2023 for the contract price of **Rs.10,31,75,017/-(Rupees Ten Crore Thrirty One Lacs Seventy Five thousand and seventeen only)** including G.S.T. amount as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our agency at the below noted rates with a time limit of 11 (Eleven) Months:-

Sr.No	Description of Work / Item(s)	Units	Rate
1	Scarifying the existing Bituminous road surface to a depth of 50mm and disposal of scarified material with in all lifts and lead upto 1000 meters	Sqm	**8.30**
2	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately (Granular Courses)	Cum	**92.60**
3	Laying of granular sub-base by providing material as per grading-II (Table 400-I of MORT&H 5th revision), mixing in a mechanical mix plant at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per technical clause 401 of MORT&H specifications	Cum	**166.39**
4	Construction of granular sub-base by providing material as per grading-II (Table 400-I of MORT&H 5th revision), mixing in a mechanical mix plant at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per technical clause 401 of MORT&H specifications	Cum	**2115.00**

5	Construction of compactimg grade wett mix maccadam providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401. Grade II	Cum	**1855.00**
6	Providing and applying prime coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.75 KGper sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sqm	**42.72**
7	Providing and laying a single coat of a stress absorbing membrane over a cracked road surface, with crack width above 9 mm and cracked area above 50 per cent after cleaning with a mechanical broom, using modified binder complying with IRC:SP: 53, sprayed at the rate of 15 kg per 10 sqm and spreading 11.2 mm crushed stone aggregates @ 0.12 cum per 10 sqm, sweeping the surface for uniform spread of aggregates and surface finished to conform to clause 902.	Sqm	**124.88**
8	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom	Sqm	**11.88**
9	Providing and laying bituminous macadam Grade II with higher capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Grading -II)	Cum	**7500.07**
10	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sqm	**11.88**
11	Providing & laying Dense Bituminious Macadam grade II 50mm to 75mm thick with batch type hot mix plant using crust aggregate of specified premix with bituminious binder VG-30 @ 4.5% carraige of mix material to site of work, laid over a previously prepared surface with paver finisher to the required grade level and alignment and rolled to achieve the desired compaction complete as per technical clause 504 of MORT&H specifications (Grading - II)NOTES:-(i) Job mix formula for the dense bituminous macadam shall be provided by the agency and shall be got approved from Punjab PWD, B&R Research Laboratory Patiala before adoption at site forexecution.(ii) The specification of this item for analytic purpose is kept with bitumen content @ 4.50% weight of mix variation as compared with job mix formula shall be paid / deducted accordingly. The limits of variation shall be worked out with the approved formula. TECHNICAL NOTE:-(i) Apart from the confirmity with the grading and quantity requirement of invidual ingredients exhibited above the mix aggregate i.e. coarse and fine aggregate for dense bituminous concrete shall meet all requirements set forth clause 505 of MORT & H specifications. (ii) The final grading for the aggregates required for dense bituminous macadam confirming to table	Cum	**8300.02**

	500.10 of MORT & H specifications shall be determined after getting the dense bituminous macadam designed from Punjab PWD, B&R Research Laboratory Patiala after obtaining 60% of material. The design mix so finally approved shall be termed as the approved mix. The aggregates shall be hydrophobic and of low porosity. The aggregates shall satisfy the physical requirement set fourth in table 500-6 (addendum to latest revision). (iii) The approved mix shall exhibit the following details, source and location of all material: -(iii) (a) Binder expressed as percentage by weight of total mix.(iii) (b) Course expressed as percentage by weight of total mix.(iii) (c) Crushed bajri expressed as percentage by weight of total mix.(iii) (d) Final aggregate expressed as percentage by weight of total mix (iii) (e) A single definite percentage passing each sieve for mixed aggregates. (iii) (f) Density of dense bituminous macadam after compaction will be not less than 2.30 gm/CC.		
12	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sqm	**11.88**
13	Providing and laying bituminous concrete Grade II with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects (Grading-II). "NOTES:- (i) Job mix formula for the bituminous concrete shall be provided by the agency and shall be got approved from Punjab PWD, B&R Research Laboratory Patiala before adoption at site for execution." (i) The specification of this item for analytic purpose is kept with bitumen content @ 5.4% weight of mix variation as compared with job mix formula shall be paid / deducted accordingly. The limits of variation shall be worked out with the approved formula. TECHNICAL NOTE:- (i) Apart from the confirmity with the grading and quantity requirement of invidual ingredients exhibited above the mix aggregate Le.coarse and fine aggregate for bituminous concrete shall meet all requirements set forth clause 507 of MORT & H specifications. ii) The final grading for the aggregates required for bituminous concrete confirming to table 500.17 of MORT & H specifications shall be determined after getting the bituminous concrete designed from Punjab PWD, B&R Research Laboratory Patiala after obtaining 60% of material. The design mix so finally approved shall be termed as the approved mix. The aggregates shall be hydrophobic and of low porosity. The aggregates shall	Cum	**9700.00**

	satisfy the physical requirement set fourth in table 500-6 (addendum to latest revision). (iii) The approved mix shall exhibit the following details, source and location of all material; - (iii) (a) Binder expressed as percentage by weight of total mix. (iii) (b) Course expressed as percentage by weight of total mix (iii) (c) Crushed bajri expressed as percentage by weight of total mix. (iii) (d) Final aggregate expressed as percentage by weight of total mix (iii) (e) A single definite percentage passing each sieve for mixed aggregates. (iii) (f) Density of bituminous concrete after compaction will be not less than 2.35 gm/CC.		
14	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 1997 complete as per technical clause 803 of MORT&H specifications	Sqm	**500.00**
15	Providing & fixing Road Cat Eyes complete as per drawing and technical specification clause 805 of MORT&H Specifications 2001 and direction of the Engineer, Cat Eyes - ABS Plastic Type confirming to IRC /ASTM code of make 3M or Averydension (3.5 m C/C)	No	**214.46**
16	Construction of emankment with earth obtained from roadway cutting or excavation including spreading, grading to required slope and compacting to meet requirement of Table 300-2 as per Tech.clause 305 of MORT&H spcifications	cum	**271.30**
17	Construction of Side Drain 0.30 x 0.30 Mtr.		
17.10	Earth work in excavation for foundation of structures upto 3 m depth as per drawing and technical specifiction clause 1104 including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides	Cum	**50.00**
17.20	Cement Concrete 1:3:6 with stone ballast (PCC M 15)	Cum	**2100.00**
17.30	Brick Masonary work in cement mortar 1:3 in foundation of walls complete excluding pointing and plastering as per drawings and technical specification	Cum	**4800.00**
17.40	Cement Concrete 1:2:4 with stone blast Mixing by mechanical means using mixer volume metric type	Cum	**3100.00**
17.50	Plastering with cement mortar (1:3) on brick work in sub-structure as per Technical Specifications	Sqm	**50.00**
18	Construction of 0.7 mtr span slab type culvert with 10.00 mtr formation as per drawing. RD 14100, 14430, 18890, 25130		
18.10	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for road work.) Ordinary soil	Cum	**50.00**

	Mechanical Means (Depth upto 3 m)		
18.20	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. PCC Grade M15 using batching plant & Concrete pump	Cum	**2600.00**
18.30	Brick Masonry Work in Cement Mortar 1:3 in Foundation complete excluding Pointing and Plastering, as per Drawing and Technical Specifications.	Cum	**4300.00**
18.40	Brick masonry work in 1:3 in sub-structure complete excluding pointing and plastering, as per drawing and Technical Specifications	Cum	**4300.00**
18.50	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications	MT	**52000.00**
18.60	Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification RCC Grade M25	Cum	**900.00**
18.70	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications PCC Grade M20 using batching plant transit mixer & Concrete pump	Cum	**3200.00**
18.80	Brick Masonry Work in Cement Mortar 1:3 in Foundation complete excluding Pointing and Plastering, as per Drawing and Technical Specifications.	Cum	**3100.00**
18.90	Pointing with cement mortar (1:3) on brick work in substructure as per Technical Specifications	Sqm	**50.00**
19	Ordinary kilometer stone (precast)	No	**450.00**
20	Reinforced cement concrete M-15 grade 200 meter stone of standard design as per IRC 26- 1967 fixing in position including painting and printing etc. complete as per technical clause 804 of MORT&H specifications	No	**549.89**
21	Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting	No	**696.00**
22	Cautionary sign board 900x900x900mm triangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 09 and as per IRC 67 2012 fixed over 4mm thick aluminum Composite material (ACM) sheeting having aluminum skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminum alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm angle iron supported on a square hollow steel section post 60x60x3.2mm conforming to IS 4923 without cost of definition plate firmly fixed to ground in foundation concrete M-25 of size 0.45x0.45x0.75m for vertical post complete as per clause 801 of MORT&H specifications. Supplier shall provide a warranty as per clause 6.9 of IRC 67-2012 for retro reflective sheeting & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012	No	**3858.44**

23	Cautionary sign board 600x600x600mm triangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012. fixed over 3mm thick aluminium Composite material (ACM) sheeting having aluminium skin thickness of 0.25 to 0.3 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm angle iron supported on a square hollow steel section post 60x60x3.2mmmm conforming to IS 4923 without cost of definition plate firmly fixed to ground in foundation concrete M-25 of size 0.45x0.45x0.60m for vertical postcomplete as per clause 801 of MORT&H specifications. supplier shall provide a warranty as per clause 6.9 of IRC 67-2012 for retro reflective sheeting & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 .	No	**2870.30**
24	Mandatory sign board 900mm circular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012. Fixed over 4mm thick aluminium Composite material (ACM) sheeting having aluminium skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm angle iron supported on a square hollow steel section post 60x60x3.2mm conforming to IS 4923 without cost of definition plate firmly fixed to ground in foundation concrete M-25 of size 0.45x0.45x0.60m for vertical post complete as per clause 801 of MORT&H specifications. Supplier shall provide a warranty as per clause 6.9 of IRC 67-2012 for retro reflective sheeting & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 7-2012 . Using high intensity Microprismatic grade retro eflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012 24.45 a	No	**5069.60**
25	Informatory sign board 800x600mm rectangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012. fixed over 4mm thick aluminium Composite material (ACM) sheeting having aluminium skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm angle iron supported on a square hollow steel section post 60x60x3.2mm conforming to IS 4923 without cost of definition plate firmly fixed to ground in foundation concrete M-25 of size 0.45x0.45x0.60m for vertical post complete as per clause 801 of MORT&H specifications. Supplier shall provide a warranty as per clause 6.9 of IRC 67-2012 for retro reflective sheeting & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 . Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012 24.46 a	No	**4335.50**

26	Informatory sign board 600x450mm rectangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012.fixed over 3mm thick aluminium Composite material (ACM) sheeting having aluminium skin thickness of 0.25 to 0.3 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm angle iron supported on a square hollow steel section post 60x60x3.2mm conforming to IS 4923 without cost of definition plate firmly fixed to ground in foundation concrete M-25 of size 0.45x0.45x0.60m for vertical post complete as per clause 801 of MORT&H specifications. Supplier shall provide a warranty as per clause 6.9 of IRC 67-2012 for retro reflective sheeting & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 . Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012 24.46 b	No	**3297.88**
27	Informatory sign board 600x600mm square as per IRC 67-2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012. with retro reflective high intensity Microprismatic grade sheeting fixed over 3mm thick Aluminium Composite Material (ACM) sheeting having aluminium skin thickness of 0.25 to 0.3 mm Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012	No	**3685.63**
28	Place Identification sign board 900x600mm rectangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012 fixed over 4mm thick aluminium Composite material (ACM) sheeting having aluminium skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012	No	**6223.56**
29	Advance Direction sign board 900x900mm square as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012. fixed over 4mm thick aluminium Composite material (ACM) sheeting having aluminium skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC 67 2012 24.48 a	No	**9060.37**
30	Advance Direction sign board 1200x1200mm rectangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 – 09 and as per IRC 67 – 2012. fixed over 4mm thick Aluminium Composite Material (ACM) sheeting having aluminium skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm Using high intensity Microprismatic grade retro reflective Sheeting Type XI as per ASTM D 4956 09 and as per IRC	No	**12720.26**

	67 2012		
31	Hazard Marker sign board 300x900mm rectangular as per IRC 67- 2012 with high intensity Microprismatic grade retro reflective Sheeting as per ASTM D 4956 09 and IRC 67 2012, fixed over 4mm thick Aluminium Composite Material (ACM) sheeting having skin thickness of 0.4 to 0.5 mm on both sided and fixing the same with suitable size aluminium alloy rivets @ 200 mm c/c to back support frame of 25x25x3mm angle iron supported on a square hollow steel section post 60x60x3.2mm conforming	No	**3544.22**
32	Providing and making rumble strips 15-20mm high at centre, 250mm wide placed at 1m centre to centre over freshly laid bituminous layer by using close graded premix surfacing aterial type B at approved locations to control speed. The close graded premix surfacing material type B shall conform to technical	No	**78.00**
33	Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-40 grade concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified	Rmt.	**2212.00**
34	Painting on concrete surface (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m.)	Sqm	**108.00**
35	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of fine sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications & direction of Engineer-in-Charge. 80mm thick C.C. paver block of M-40 grade with approved colour, design & pattern.	Sqm	**1050.00**
36	Add GST @18%	Percentage	**15738562.00**

You are hereby requested to furmish performance security, in the form detailed in para 30.1 of ITB for as amount equivalent **to Rs.5158751/-** within 21 days of this letter of acceptance valid upto 28 days from the date for expiry of the defect liability period i.e.upto 14.12.2025 and sign the contract failing which action as stated in para 30.3 for ITB will be

taken. You are also directed to submit the Additional Performance Security of Rs.9,45,000/ lacs for the unbalanced items as per Clause 29.5 of ITB.

Executive Engineer,
Provincial Division
PWD B&R Br. Amritsar.

Endst 2793-96 dated 18/12/2023

Copy of the above is forwarded to the following for information & necessary action:-

1. Superintending Engineer,Construction Circle, PWD B&R Br,Amritsar with ref. to your office Ends No. SPL1-2 Dated14.11.2023
2. Sub Division Engineer, Provincial Sub Divisional No.2 Amritsar.
3. Divisional Accounts Officer, Provincial Division, Amritsar.
4. Divisional Head Draftsman, Provincial Division Amritsar.
5. Agreement.

Executive Engineer,
Provincial Division
PWD B&R Br. Amritsar.

Signature Not Verified
Digitally signed by Inderjit Singh
Date: 2023.12.22 15:50:57 IST
Location: eProcure-EPROC