



SYAMA PRASAD MOOKERJEE PORT, KOLKATA

हल्दिया गोदी परिसर
HALDIA DOCK COMPLEX

An ISO - 9001 : 2015 Organisation

Office of Plant & Equipment (P&E) Division,
Operational Building, 1st Floor,
Chiranjibpur, Haldia, Dist.: Purba Medinipur,
West Bengal, India, PIN - 721 604.
E-mail: akkar.hdc@kolkataporttrust.gov.in

No.: SDM(P&E)/105/ENQ/04/2022-2023

Dated: 11.05.2022

Dear Sir,

Subject : Budgetary Enquiry for "Manufacture, supply and delivery of Idler Brackets for Coal Handling Plant, Haldia Dock Complex, Syama Prasad Mookerjee Port, Kolkata (SMP, Kolkata)."

The Prospective bidders are requested to submit **sealed budgetary offer**, for "Manufacture, supply and delivery of Idler Brackets for Coal Handling Plant, Haldia Dock Complex, Syama Prasad Mookerjee Port, Kolkata (SMP, Kolkata)." as per the '**Scope of work, reference available drawing (enclosed)**', and the '**Bill of Quantities**' (BoQ) furnished in **Annex - "a"** (enclosed). However, enclosed drawing, available with HDC, is for reference & understanding only. The prospective bidders are advised to visit Coal Handling Plant, Haldia Dock Complex to get himself thoroughly familiarized with site condition and check veracity of enclosed drawing. The bidder at his discretion may prepare the drawing on the basis of site condition and get approval from Sr. Dy. Manager (P&E) before commencement of manufacturing.

The offer should be based upon the following terms and conditions:

1. Price basis:

- 1.1 The quoted price for BoQ Sl. No.1 shall be inclusive of all charges for Manufacturing, supplying, delivering (F.O.R. at Coal Handling Plant store of Haldia Dock Complex basis) & guaranteeing of Idler Brackets (as per contractual conditions) and all other incidental charges for the execution of the contract except GST.
- 1.2 The offerer shall fill in 'Unit Rate' and 'Amount' for the item, as described in the '**Bill of Quantities**', as per the required break-up.
- 1.3 The prices quoted shall be exclusive of GST as well as any statutory levies and/or other charges levied by any Central/State/local authorities, which shall be paid extra, at applicable rates, at the time of execution of work. As such, details thereof, as applicable, are to be furnished clearly in the offer.
- 1.4 Any new statutory levies, taxes, duties, cess, etc. imposed by the Central/State/local authorities, by way of fresh notifications, subsequent to the issue of Work Order/Purchase Order, but within the stipulated delivery period, shall be paid extra.

2. General terms & conditions related to GST:

- 2.1 Supplier to confirm that the GST amount charged in invoice is declared in its returns and payment of taxes is also made.
- 2.2 The Supplier agrees to comply with all applicable GST laws, including GST acts, rules, regulations, procedures, circulars & instructions hereunder applicable in

India from time to time and to ensure that such compliance is done within the time prescribed under such laws. Supplier should ensure accurate transaction details, as required by GST laws, are timely uploaded in GSTN. In case there is any mismatch between the details so uploaded in GSTN by Supplier and details available with Syama Prasad Mookerjee Port, Kolkata, then payments to Supplier to the extent of GST relating to the invoice/s under mismatch may be retained from due payments till such time Syama Prasad Mookerjee Port, Kolkata is not sure that accurate tax amount is finally reflected in the GSTN to SMP, Kolkata's Account and is finally available to Syama Prasad Mookerjee Port, Kolkata in terms of GST laws and that the credit of GST so taken by Syama Prasad Mookerjee Port, Kolkata is not required to be reversed at a later date along with applicable interest.

- 2.3 Syama Prasad Mookerjee Port, Kolkata has the right to recover monetary loss including interest and penalty suffered by it due to any non-compliance of tax laws by the supplier. Any loss of input tax credit to Syama Prasad Mookerjee Port, Kolkata for the fault of supplier shall be recovered by Syama Prasad Mookerjee Port, Kolkata by way of adjustment in the consideration payable.
- 2.4 Supplementary invoices/debit note/credit note for price revisions to enable Syama Prasad Mookerjee Port, Kolkata to claim tax benefit on the same shall be issued by The contractor for a particular year before September of the succeeding Financial Year.
- 2.5 The purchase order/work order shall be void, if at any point of time The Prospective bidders are found to be a black listed dealer as per GSTN rating system and further no payment shall be entertained.

3. Scope of work:

- A. The work comprises of manufacture, supply and delivery of Idler Brackets on F.O.R Coal Handling Plant store, Haldia Dock Complex Basis. The materials should be supplied as per B.O.Q.

B. Painting Schedule:

- a. All exposed surfaces of fabricated items shall be ~~sand~~ ^{grit 4} blasted and painted. The requirement of painting is as follows:
- b. Epoxy Zinc rich primer shall be applied immediately after ~~sand~~ ^{grit 4} blasting and there should be a coating of M.I.O (Micaceous Iron Oxide) to give a total dry film thickness of about 70 microns.
- c. Over-coating shall be done by two coats of Coal Tar Epoxy paint to give a dry film thickness of about 200 microns. Total thickness will be 270 microns(approx.).
- d. Paints, primers and thinners shall be of the following:
Asian/ Berger / Jenson & Nicholson/ ICI / Goodlass Nerolac/ Shalimar

4. Payment terms: Payment will be made on the basis of actual supply and delivery of materials in good condition and acceptance of the same at designated points and on submission of Bill accompanied with Inspection Certificate, if any, and challan duly signed by consignee or his authorized representative. The bills should be submitted in quadruplicate to Sr. Dy. Manager (P&E)'s Office with necessary documents e.g., receipted challan in duplicate, GST Invoice, test certificate, guarantee certificate, inspection report, approved QAP etc. Payment will be made to Party's Bank Account through E C S within 30 (thirty) days of receipt of satisfactory acceptance note of supply and on submission of clear & unambiguous bill along with relevant documents. Payment will be made in Indian Rupees through the banker of the contractor i.e. through ECS. During submission of bill(s), the following information must be submitted by the Contractor regarding their banker:

- a) Savings/Current Account Number:
- b) Name of the Bank:
- c) Name of the Branch and address thereof:
- d) RTGS Code of the Branch

5. **Time of Completion & delivery:** The entire contractual obligations are to be completed in all respect within 90 days from the date of issuance of LOI/LOA or Work Order, whichever is earlier. Materials shall be delivered by the supplier to HDC's Coal Handling Plant site/store at Haldia at their cost, risk and responsibility. Delivery period shall be binding on the supplier. If delivery of materials is not made within the time undertaken without sufficient reasons acceptable to the Trustees, the order may be cancelled without notice at the option of Trustees. In the event of failure to execute the order, Trustees will take penal action against the supplier and his name will be removed from the list of approved suppliers. In case of default in supply or, failure to deliver as per correct specification or, the approved quality within the time stipulated Trustees are entitled to purchase the Items from any other source at the risks, costs and expenses of the supplier. Such purchase may comprise the whole or, any portion of the supply remaining undelivered or, not approved. The successful Bidder must make their own arrangements for delivery of all materials, as well as for careful and proper unloading and stacking at HDC's Store/Site. The responsibility for preventing damage / deterioration to the materials during transit, delivery, unloading and stacking at the designated point shall rest with the Supplier. All transit risk will be to supplier's account. The Bidder must send advance intimation to the concerned Officer as to the proposed dates of delivery of each and every installment of supply together with a list showing quantity and particulars of the material in the consignment. Materials will not be accepted if not accompanied by the authorized representative along with proper Delivery Challan, Inspection/Test Certificate, Guarantee Certificate and other related documents. Delivery of materials will not be accepted on Sundays and Holidays. No lorry shall be permitted into the protected area during night-time. Detention of lorries, if any, will be on supplier's account. The authorized representative of the Bidder should be present at the time of delivery.
6. **Despatch Arrangement :** The supplier shall be fully responsible for any transit loss or damage to the materials.
7. **Inspection:** Inspection will be carried out by the authorized representative of P&E Division in stage as per relevant drawing & painting schedule as mentioned below. The material Test certificate as per relevant IS from any Govt. Laboratory / Govt. approved Laboratory should be submitted by the supplier during inspection. The supplier must afford all facilities for inspection to the inspector at their premises at their own cost and arrangement for which clear 10(ten) days time from the date of receipt of inspection offer, should be provided by the supplier. Delay beyond 10 (ten) days to depute inspector by HDC will not attribute LD.

The stage inspection will be as follows:

1st stage Inspection:

All fabricated items in assembled condition after sand blasting & painting with Epoxy Zinc rich primer & M.I.O (Micaceous Iron Oxide).

2nd Stage Inspection:

After over coating with two coats of coal tar Epoxy paint. In each stage of inspection minimum 10% at random of each offered item should be inspected. The materials to be supplied by the supplier should strictly conform to the laid down specification of tender / order. If necessary, samples from the supplies may be drawn and the same will be tested by Trustees' authorized person either at the trustees own arrangement or by Government test House and if found to be inferior to the laid down specifications of tender / order, the materials will be rejected in whole or in part and supplier at his own cost and arrangement. No inspection would be carried out without the contractor's internal inspection clearance. It is to be noted that the above inspection and subsequent dispatch clearance will not relieve the contractor of their responsibility of maintaining quality to guarantee performance. If any operation and manufacturing defect would be found in any assembly / sub-assemblies during the performance guarantee period repair / replacement of the same will have to be done by the contractor, free of cost.

8. **Certificates:**

1. Guarantee Certificate of the supplier is to be submitted at the time supply of materials.
2. Manufacturer's Test Certificate(s) or from certificate from authorized Govt Test laboratory House, must be produced at the time of inspection of materials and the same shall be supplied along with supply.

9. **QAP:** Within 07 (seven) days from the date of issuance of LOI/LOA or Order, whichever is earlier, the contractor (successful tenderer) shall submit 4 (four) sets of Quality Assurance Plans (QAP) to HDC, SMP, Kolkata, for approval. If the QAP, so submitted, is found to be in order, the same shall be approved by HDC, SMP, Kolkata, within 7 (seven) working days of the Port from the date of receipt of the QAP by HDC, SMP, Kolkata.
10. **Rejection of Materials:** Notwithstanding the inspection and passing of materials by Trustees' authorized person (representative of P&E Division), any material found to be defective in quality and not conforming to the relevant specification, shall liable to be rejected and the supplier shall replace the same at his cost and arrangement at the earliest. The supplier shall at his own arrangement and cost replace within a period of 1 (one) month all such dispatched materials that have either been rejected by Trustees' authorized person (representative of Sr. Dy. Manager-P&E), or have been found in defective/broken/damaged condition after unloading. Rejected materials shall be at Supplier's risk. They must be collected from the Trustees' Stores, H.D.C. within a fortnight from the date of rejection on observing usual procedure on the matter. If the contractor fails to remove such materials within a reasonable time, the Trustees shall have the right to dispose of the same and the supplier shall have no claim against the Trustees in respect of the said rejected materials.
11. **Transit Risk:** Transit risk will be on supplier's account since the delivery is to be made on F.O.R. Destination basis.
12. **Risk Purchase:** In case of supplier's failure and at the absolute discretion of the Sr. Dy. Manager (P&E), the work may be ordered to be completed by some other agency at the risk and expense of the supplier (successful tenderer) after a minimum three days' notice in writing has been given to the supplier by the Sr. Dy. Manager (P&E) or, his representative. In case of risk purchase extra cost will be borne by the supplier (successful tenderer).
13. **Guarantee:** The materials, with all accessories and attachments, shall have to be guaranteed by the supplier against the manufacturing defects or, poor performance for a period of 12 months from the date of commissioning or, 18 months from the date of delivery & acceptance, whichever is earlier. If any defect whatsoever develops during the Guarantee Period, the defective materials will have to be replaced/rectified, as the case may be, by the Bidder at their own cost.
14. **Security Deposit:** The contractor shall have to deposit 3% of the total value of order, within 15 (fifteen) days from the date of placement of order in the form Banker's Cheque or by Demand Draft of a **Nationalized Bank of India** drawn in favour of '**Syama Prasad Mookerjee Port, Kolkata, Haldia Dock Complex**' and payable at **Haldia** - with Sr. Dy. Manager (Finance), HDC, SMP, Kolkata, which shall be retained as Security Deposit till successful expiry of the guarantee period.

The Security Deposit may also be deposited in the form of an **irrevocable and unconditional Bank Guarantee** from a Nationalized Bank/Scheduled Bank of India, for an amount equivalent to 3% of the contract price. In all cases, any dispute regarding Bank Guarantee will be adjudicated under the jurisdiction of Kolkata High Court.

The Security Deposit will be refunded, without interest, after the successful execution of the order and completion of the guarantee period and submission of '**No Claim Certificate**'.
15. **Liquidated Damage clause:** In the event of The contractor's failure to execute the contract within the stipulated dates or such extension(s) thereof, as may be allowed by Sr. Dy. Manager (P&E) in writing, The contractor will be required to pay as compensation to the Trustees and not as penalty @ ½ % for every week or part thereof of the total value of work (contract price), provided always the entire amount of compensation to be paid under the provision of this clause shall not exceed 10% of the said value of work. The Trustees may, without prejudice to any other method of recovery, deduct the amount of such damages from any money which is due or which may become due to The contractor. The payment or deduction of such damages shall not relieve The contractor from The contractor's obligation to complete the supply of spare(s) or from any other of The contractor's obligation or liabilities under the contract. GST will be applicable on L.D amount.

16. **Force Majeure:** In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall, upon notification to the other party, be suspended for the period during which such Force Majeure event lasts. The cost and loss sustained by either party shall be borne by the respective parties. The term 'FORCE MAJEURE', as employed herein, shall mean acts of God, Earthquake, Tsunami (caused by earthquake at the ocean bed), War, Revolt, Riot, Fire, Floods, Sabotage and Hurricane/Cyclone, Strike {excluding that of the contractor's supplier(s) or the sub-contractor's employees}. Upon the occurrence of such case and upon its termination, the party alleging that it has been rendered unable, as aforesaid, shall notify the other party in writing immediately, but not later than 48 (forty-eight) hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.

17. **Access to Site :**

The tenderer shall visit the site and get themselves acquainted with the existing facilities. Haldia is linked by road through National High Way 6 & 41 via Mechada and by rail from Howrah and Kharagpur via Panskura. The Coal Handling Plant is situated inside the Dock Area, 3 kilometres away from the main road.

18. In connection with execution of the order, necessary **Gate Pass(es)/Permit(s)** - for entering into the **Dock Area** - will be provided **on chargeable basis** at per with prevailing rate of HDC.

All other terms and conditions, not specifically mentioned above, will be as per the stipulations of the **General Conditions of Contract, May 1993** of HDC, **SMP, Kolkata** available at SMP, Kolkata's official website (www.kolkataporttrust.gov.in).

You are requested to return a copy of the instant enquiry letter, duly signed and stamped on each page, along with your offer, as a token of The contractor's acceptance of the aforesaid terms and conditions.

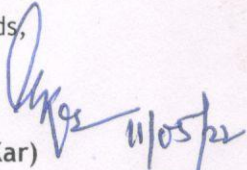
The sealed envelope, containing The contractor's offer, must be superscribed with the following:

Enquiry no. SDM(P&E)/105/ENQ/04/2022-2023

Dated: 11/05/2022

You are requested to send the **sealed offer**, to the office of **Plant & Equipment (P&E) Division, HDC, SMP, Kolkata** at the **Operational & Administrative Building** at **Chiranjibpur**, within **1400 Hrs.** of **03/06/2022**.

Regards,


(A.K. Kar)
Sr. Dy. Manager (P&E)
Haldia Dock Complex,
SMP, Kolkata

Encl. : As above.



BILL OF QUANTITIES (BoQ)

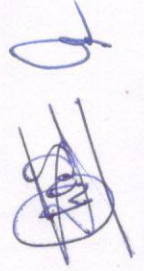
"Manufacture, supply and delivery of Idler Brackets for Coal Handling Plant, Haldia Dock Complex, Syama Prasad Mookerjee Port, Kolkata (SMP, Kolkata)."

Preamble:

- 1) This 'Bill of Quantities (BoQ)' is to be read in conjunction with the terms and conditions of the referred enquiry.
- 2) The tenderer shall have to quote their rates as per this 'Bill of Quantities (BoQ)', both 'in figures' and 'in words'.
- 3) The priced 'Bill of Quantities (BoQ)' should not contain any extraneous condition whatsoever (like **CONDITIONAL REBATE**, etc.).
- 4) The prices should be quoted in Indian Rupees (INR) only.
- 5) The quoted price for BoQ Sl. No.1 shall be inclusive of all charges for manufacturing, supplying, delivering (F.O.R. at Coal Handling Plant store of Haldia Dock Complex basis) & guaranteeing of different types of drive and non-drive drums (as per contractual conditions) and all other incidental charges for the execution of the contract except GST
- 6) The rate, submitted by the tenderer, shall be unit rate and must include all payments on account of royalties, etc. payable to the State of West Bengal or Government of India or any other authority or Body Corporate and all other incidental charges that the tenderer may have to bear for the execution of the contract.
- 7) The prices quoted shall be exclusive of GST as well as any statutory levies and/or other charges levied by any Central/State/local authorities, which shall be paid extra, at applicable rates, at the time of supply of goods. As such, details thereof, as applicable, are to be furnished clearly in the offer.
- 8) Any new statutory levies, taxes, duties, cess, etc. imposed by the Central/State/local authorities, by way of fresh notifications, subsequent to the issue of Work Order/Purchase Order, but within the stipulated delivery period, shall be paid extra.
- 9) Any additional cost or benefit impacting the contract price, resulting from introduction of any new law, towards leviable taxes, including eligible credits, in respect of goods and services to be supplied under the contract, then the parties agree to an adjustment to the contract price to reflect the financial impact of such "Change in law".

Name and signature of the witness:

Signature of the tenderer
(with name, designation, date and office seal)



Sl. No.	Item particulars.	Qty.	Unit rate [in Indian Rupees (INR)].	Amount for full quantity [in Indian Rupees (INR)].
01	Troughing Idler Bracket (Type:BKT-1), suitable for 1400 mm Conveyor Belt with 30° Troughing angle & with 2° offset, generally as per Drawing No.230.091 (Sheet 1 of 2) of HDC, KoPT, enclosed.	700 Nos.	INR (in figures) Indian Rupees..... (in words)	INR (in figures) Indian Rupees..... (in words)
TOTAL			INR(in figures) Indian Rupees..... (in words)	INR(in figures) Indian Rupees..... (in words)

Note: GST for the above items will be applicable extra @.....%

Name and signature of the witness:



Signature of the offerer
(with name, designation, date and office seal)



REL'T WIDTH	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	REL'T DIA.	
1400	161	158	150	127	69	116	40	23	10.0	6.5	30 ⁰	119	151	20	8	50.5	24.5	15	26.5	27.5	52.4							
1500	167	156	148	128	70	120	42	24	10.5	6.8	32 ⁰	124	156	21	9	52.0	25.0	16	27.0	28.0	54.0							
1600	173	162	153	134	75	126	44	25	11.0	7.0	34 ⁰	129	161	22	10	53.5	25.5	17	28.0	29.0	55.0							
1700	179	168	158	140	80	132	46	26	11.5	7.2	36 ⁰	134	166	23	11	55.0	26.0	18	29.0	30.0	56.0							
1800	185	174	164	146	85	138	48	27	12.0	7.5	38 ⁰	139	171	24	12	56.5	26.5	19	30.0	31.0	57.0							
1900	191	180	170	152	90	144	50	28	12.5	7.8	40 ⁰	144	176	25	13	58.0	27.0	20	31.0	32.0	58.0							
2000	197	186	176	158	95	150	52	29	13.0	8.0	42 ⁰	149	181	26	14	59.5	27.5	21	32.0	33.0	59.0							
2100	203	192	182	164	100	156	54	30	13.5	8.2	44 ⁰	154	186	27	15	61.0	28.0	22	33.0	34.0	60.0							
2200	209	198	188	170	105	162	56	31	14.0	8.5	46 ⁰	159	191	28	16	62.5	28.5	23	34.0	35.0	61.0							
2300	215	204	194	176	110	168	58	32	14.5	8.8	48 ⁰	164	196	29	17	64.0	29.0	24	35.0	36.0	62.0							
2400	221	210	200	182	115	174	60	33	15.0	9.0	50 ⁰	169	201	30	18	65.5	29.5	25	36.0	37.0	63.0							
2500	227	216	206	188	120	180	62	34	15.5	9.2	52 ⁰	174	206	31	19	67.0	30.0	26	37.0	38.0	64.0							
2600	233	222	212	194	125	186	64	35	16.0	9.5	54 ⁰	179	211	32	20	68.5	30.5	27	38.0	39.0	65.0							
2700	239	228	218	200	130	192	66	36	16.5	9.8	56 ⁰	184	216	33	21	70.0	31.0	28	39.0	40.0	66.0							
2800	245	234	224	206	135	198	68	37	17.0	10.0	58 ⁰	189	221	34	22	71.5	31.5	29	40.0	41.0	67.0							
2900	251	240	230	212	140	204	70	38	17.5	10.2	60 ⁰	194	226	35	23	73.0	32.0	30	41.0	42.0	68.0							
3000	257	246	236	218	145	210	72	39	18.0	10.5	62 ⁰	199	231	36	24	74.5	32.5	31	42.0	43.0	69.0							
3100	263	252	242	224	150	216	74	40	18.5	10.8	64 ⁰	204	236	37	25	76.0	33.0	32	43.0	44.0	70.0							
3200	269	258	248	230	155	222	76	41	19.0	11.0	66 ⁰	209	241	38	26	77.5	33.5	33	44.0	45.0	71.0							
3300	275	264	254	236	160	228	78	42	19.5	11.2	68 ⁰	214	246	39	27	79.0	34.0	34	45.0	46.0	72.0							
3400	281	270	260	242	165	234	80	43	20.0	11.5	70 ⁰	219	251	40	28	80.5	34.5	35	46.0	47.0	73.0							
3500	287	276	266	248	170	240	82	44	20.5	11.8	72 ⁰	224	256	41	29	82.0	35.0	36	47.0	48.0	74.0							
3600	293	282	272	254	175	246	84	45	21.0	12.0	74 ⁰	229	261	42	30	83.5	35.5	37	48.0	49.0	75.0							
3700	299	288	278	260	180	252	86	46	21.5	12.2	76 ⁰	234	266	43	31	85.0	36.0	38	49.0	50.0	76.0							
3800	305	294	284	266	185	258	88	47	22.0	12.5	78 ⁰	239	271	44	32	86.5	36.5	39	50.0	51.0	77.0							
3900	311	300	290	272	190	264	90	48	22.5	12.8	80 ⁰	244	276	45	33	88.0	37.0	40	51.0	52.0	78.0							
4000	317	306	296	278	195	270	92	49	23.0	13.0	82 ⁰	249	281	46	34	89.5	37.5	41	52.0	53.0	79.0							
4100	323	312	302	284	200	276	94	50	23.5	13.2	84 ⁰	254	286	47	35	91.0	38.0	42	53.0	54.0	80.0							
4200	329	318	308	290	205	282	96	51	24.0	13.5	86 ⁰	259	291	48	36	92.5	38.5	43	54.0	55.0	81.0							
4300	335	324	314	296	210	288	98	52	24.5	13.8	88 ⁰	264	296	49	37	94.0	39.0	44	55.0	56.0	82.0							
4400	341	330	320	302	215	294	100	53	25.0	14.0	90 ⁰	269	301	50	38	95.5	39.5	45	56.0	57.0	83.0							
4500	347	336	326	308	220	300	102	54	25.5	14.2	92 ⁰	274	306	51	39	97.0	40.0	46	57.0	58.0	84.0							
4600	353	342	332	314	225	306	104	55	26.0	14.5	94 ⁰	279	311	52	40	98.5	40.5	47	58.0	59.0	85.0							
4700	359	348	338	320	230	312	106	56	26.5	14.8	96 ⁰	284	316	53	41	100.0	41.0	48	59.0	60.0	86.0							
4800	365	354	344	326	235	318	108	57	27.0	15.0	98 ⁰	289	321	54	42	101.5	41.5	49	60.0	61.0	87.0							
4900	371	360	350	332	240	324	110	58	27.5	15.2	100 ⁰	294	326	55	43	103.0	42.0	50	61.0	62.0	88.0							
5000	377	366	356	338	245	330	112	59	28.0	15.5	102 ⁰	299	331	56	44	104.5	42.5	51	62.0	63.0	89.0							
5100	383	372	362	344	250	336	114	60	28.5	15.8	104 ⁰	304	336	57	45	106.0	43.0	52	63.0	64.0	90.0							
5200	389	378	368	350	255	342	116	61	29.0	16.0	106 ⁰	309	341	58	46	107.5	43.5	53	64.0	65.0	91.0							
5300	395	384	374	356	260	348	118	62	29.5	16.2	108 ⁰	314	346	59	47	109.0	44.0	54	65.0	66.0	92.0							
5400	401	390	380	362	265	354	120	63	30.0	16.5	110 ⁰	319	351	60	48	110.5	44.5	55	66.0	67.0	93.0							
5500	407	396	386	368	270	360	122	64	30.5	16.8	112 ⁰	324	356	61	49	112.0	45.0	56	67.0	68.0	94.0							
5600	413	402	392	374	275	366	124	65	31.0	17.0	114 ⁰	329	361	62	50	113.5	45.5	57	68.0	69.0	95.0							
5700	419	408	398	380	280	372	126	66	31.5	17.2	116 ⁰	334	366	63	51	115.0	46.0	58	69.0	70.0	96.0							
5800	425	414	404	386	285	378	128	67	32.0	17.5	118 ⁰	339	371	64	52	116.5	46.5	59	70.0	71.0	97.0							
5900	431	420	410	392	290	384	130	68	32.5	17.8	120 ⁰	344	376	65	53	118.0	47.0	60	71.0	72.0	98.0							
6000	437	426	416	398	295	390	132	69	33.0	18.0	122 ⁰	349	381	66	54	119.5	47.5	61	72.0	73.0	99.0							
6100	443	432	422	404	300	396	134	70	33.5	18.2	124 ⁰	354	386	67	55	121.0	48.0	62	73.0	74.0	100.0							
6200	449	438	428	410	305	402	136	71	34.0	18.5	126 ⁰	359	391	68	56	122.5	48.5	63	74.0	75.0	101.0							
6300	455	444	434	416	310	408	138	72	34.5	18.8	128 ⁰	364	396	69	57	124.0	49.0	64	75.0	76.0	102.0							
6400	461	450	440	422	315	414	140	73	35.0	19.0	130 ⁰	369	401	70	58	125.5	49.5	65	76.0	77.0	103.0							
6500	467	456	446	428	320	420	142	74	35.5	19.2	132 ⁰	374	406	71	59	127.0	50.0	66	77.0	78.0	104.0							
6600	473	462	452	434	325	426	144	75	36.0	19.5	134 ⁰	379	411	72	60	128.5	50.5	67	78.0	79.0	105.0							
6700	479	468	458	440	330	432	146	76	36.5	19.8	136 ⁰	384	416	73	61	130.0	51.0	68	79.0	80.0	106.0							
6800	485	474	464	446	335	438	148	77	37.0	20.0	138 ⁰	389	421	74	62	131.5	51.5	69	80.0	81.0	107.0							
6900	491	480	470	452	340	444	150	78	37.5	20.2	140 ⁰	394	426	75	63	133.0	52.0	70	81.0	82.0	108.0							
7000	497	486	476	458	345	450	152	79																				



測試 W101 TM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	測試 HT	測試 DAL	S
1400	425	337	3W	163	212	285	---	375	---	245	475	50	30°	15	275	152-4	151
2200	365	272	30-5	176	112	26	---	375	---	245	400	40	30°	15	240	152-4	126



[CIS 10.00mm BELT WIDTH], TOTAL WT. 23.556g (APPROX.)				
	2	3 (3.556g)	4 (4.111g)	5 (4.667g)
18 P.C. 25-35mm	2	2	2	2
19 4th	2	2	2	2
20 1ST MOBILE BRACKET	1	2	2	2
21 2ND MOBILE BRACKET	1	2	2	2
22 3RD MOBILE BRACKET	1	2	2	2
23 1ST MOBILE BRACKET	1	2	2	2
24 2ND MOBILE BRACKET	1	2	2	2
25 3RD MOBILE BRACKET	1	2	2	2
26 4TH MOBILE BRACKET	1	2	2	2
27 5TH MOBILE BRACKET	1	2	2	2
28 6TH MOBILE BRACKET	1	2	2	2
29 7TH MOBILE BRACKET	1	2	2	2
30 8TH MOBILE BRACKET	1	2	2	2
31 9TH MOBILE BRACKET	1	2	2	2
32 10TH MOBILE BRACKET	1	2	2	2
33 11TH MOBILE BRACKET	1	2	2	2
34 12TH MOBILE BRACKET	1	2	2	2
35 13TH MOBILE BRACKET	1	2	2	2
36 14TH MOBILE BRACKET	1	2	2	2
37 15TH MOBILE BRACKET	1	2	2	2
38 16TH MOBILE BRACKET	1	2	2	2
39 17TH MOBILE BRACKET	1	2	2	2
40 18TH MOBILE BRACKET	1	2	2	2
41 19TH MOBILE BRACKET	1	2	2	2
42 20TH MOBILE BRACKET	1	2	2	2
43 21ST MOBILE BRACKET	1	2	2	2
44 22ND MOBILE BRACKET	1	2	2	2
45 23RD MOBILE BRACKET	1	2	2	2
46 24TH MOBILE BRACKET	1	2	2	2
47 25TH MOBILE BRACKET	1	2	2	2
48 26TH MOBILE BRACKET	1	2	2	2
49 27TH MOBILE BRACKET	1	2	2	2
50 28TH MOBILE BRACKET	1	2	2	2
51 29TH MOBILE BRACKET	1	2	2	2
52 30TH MOBILE BRACKET	1	2	2	2
53 31ST MOBILE BRACKET	1	2	2	2
54 32ND MOBILE BRACKET	1	2	2	2
55 33RD MOBILE BRACKET	1	2	2	2
56 34TH MOBILE BRACKET	1	2	2	2
57 35TH MOBILE BRACKET	1	2	2	2
58 36TH MOBILE BRACKET	1	2	2	2
59 37TH MOBILE BRACKET	1	2	2	2
60 38TH MOBILE BRACKET	1	2	2	2
61 39TH MOBILE BRACKET	1	2	2	2
62 40TH MOBILE BRACKET	1	2	2	2
63 41ST MOBILE BRACKET	1	2	2	2
64 42ND MOBILE BRACKET	1	2	2	2
65 43RD MOBILE BRACKET	1	2	2	2
66 44TH MOBILE BRACKET	1	2	2	2
67 45TH MOBILE BRACKET	1	2	2	2
68 46TH MOBILE BRACKET	1	2	2	2
69 47TH MOBILE BRACKET	1	2	2	2
70 48TH MOBILE BRACKET	1	2	2	2
71 49TH MOBILE BRACKET	1	2	2	2
72 50TH MOBILE BRACKET	1	2	2	2
73 51ST MOBILE BRACKET	1	2	2	2
74 52ND MOBILE BRACKET	1	2	2	2
75 53RD MOBILE BRACKET	1	2	2	2
76 54TH MOBILE BRACKET	1	2	2	2
77 55TH MOBILE BRACKET	1	2	2	2
78 56TH MOBILE BRACKET	1	2	2	2
79 57TH MOBILE BRACKET	1	2	2	2
80 58TH MOBILE BRACKET	1	2	2	2
81 59TH MOBILE BRACKET	1	2	2	2
82 60TH MOBILE BRACKET	1	2	2	2
83 61ST MOBILE BRACKET	1	2	2	2
84 62ND MOBILE BRACKET	1	2	2	2
85 63RD MOBILE BRACKET	1	2	2	2
86 64TH MOBILE BRACKET	1	2	2	2
87 65TH MOBILE BRACKET	1	2	2	2
88 66TH MOBILE BRACKET	1	2	2	2
89 67TH MOBILE BRACKET	1	2	2	2
90 68TH MOBILE BRACKET	1	2	2	2
91 69TH MOBILE BRACKET	1	2	2	2
92 70TH MOBILE BRACKET	1	2	2	2
93 71ST MOBILE BRACKET	1	2	2	2
94 72ND MOBILE BRACKET	1	2	2	2
95 73RD MOBILE BRACKET	1	2	2	2
96 74TH MOBILE BRACKET	1	2	2	2
97 75TH MOBILE BRACKET	1	2	2	2
98 76TH MOBILE BRACKET	1	2	2	2
99 77TH MOBILE BRACKET	1	2	2	2
100 78TH MOBILE BRACKET	1	2	2	2
101 79TH MOBILE BRACKET	1	2	2	2
102 80TH MOBILE BRACKET	1	2	2	2
103 81ST MOBILE BRACKET	1	2	2	2
104 82ND MOBILE BRACKET	1	2	2	2
105 83RD MOBILE BRACKET	1	2	2	2
106 84TH MOBILE BRACKET	1	2	2	2
107 85TH MOBILE BRACKET	1	2	2	2
108 86TH MOBILE BRACKET	1	2	2	2
109 87TH MOBILE BRACKET	1	2	2	2
110 88TH MOBILE BRACKET	1	2	2	2
111 89TH MOBILE BRACKET	1	2	2	2
112 90TH MOBILE BRACKET	1	2	2	2
113 91ST MOBILE BRACKET	1	2	2	2
114 92ND MOBILE BRACKET	1	2	2	2
115 93RD MOBILE BRACKET	1	2	2	2
116 94TH MOBILE BRACKET	1	2	2	2
117 95TH MOBILE BRACKET	1	2	2	2
118 96TH MOBILE BRACKET	1	2	2	2
119 97TH MOBILE BRACKET	1	2	2	2
120 98TH MOBILE BRACKET	1	2	2	2
121 99TH MOBILE BRACKET	1	2	2	2
122 100TH MOBILE BRACKET	1	2	2	2
123 101ST MOBILE BRACKET	1	2	2	2
124 102ND MOBILE BRACKET	1	2	2	2
125 103RD MOBILE BRACKET	1	2	2	2
126 104TH MOBILE BRACKET	1	2	2	2
127 105TH MOBILE BRACKET	1	2	2	2
128 106TH MOBILE BRACKET	1	2	2	2
129 107TH MOBILE BRACKET	1	2	2	2
130 108TH MOBILE BRACKET	1	2	2	2
131 109TH MOBILE BRACKET	1	2	2	2
132 110TH MOBILE BRACKET	1	2	2	2
133 111TH MOBILE BRACKET	1	2	2	2
134 112TH MOBILE BRACKET	1	2	2	2
135 113TH MOBILE BRACKET	1	2	2	2
136 114TH MOBILE BRACKET	1	2	2	2
137 115TH MOBILE BRACKET	1	2	2	2
138 116TH MOBILE BRACKET	1	2	2	2
139 117TH MOBILE BRACKET	1	2	2	2
140 118TH MOBILE BRACKET	1	2	2	2
141 119TH MOBILE BRACKET	1	2	2	2
142 120TH MOBILE BRACKET	1	2	2	2
143 121ST MOBILE BRACKET	1	2	2	2
144 122ND MOBILE BRACKET	1	2	2	2
145 123RD MOBILE BRACKET	1	2	2	2
146 124TH MOBILE BRACKET	1	2	2	2
147 125TH MOBILE BRACKET	1	2	2	2
148 126TH MOBILE BRACKET	1	2	2	2
149 127TH MOBILE BRACKET	1	2	2	2
150 128TH MOBILE BRACKET	1	2	2	2
151 129TH MOBILE BRACKET	1	2	2	2
152 130TH MOBILE BRACKET	1	2	2	2
153 131ST MOBILE BRACKET	1	2	2	2
154 132ND MOBILE BRACKET	1	2	2	2
155 133RD MOBILE BRACKET	1	2	2	2
156 134TH MOBILE BRACKET	1	2	2	2
157 135TH MOBILE BRACKET	1	2	2	2
158 136TH MOBILE BRACKET	1	2	2	2
159 137TH MOBILE BRACKET	1	2	2	2
160 138TH MOBILE BRACKET	1	2	2	2
161 139TH MOBILE BRACKET	1	2	2	2
162 140TH MOBILE BRACKET	1	2	2	2
163 141ST MOBILE BRACKET	1	2	2	2
164 142ND MOBILE BRACKET	1	2	2	2
165 143RD MOBILE BRACKET	1	2	2	2
166 144TH MOBILE BRACKET	1	2	2	2
167 145TH MOBILE BRACKET	1	2	2	2
168 146TH MOBILE BRACKET	1	2	2	2
169 147TH MOBILE BRACKET	1	2	2	2
170 148TH MOBILE BRACKET	1	2	2	2
171 149TH MOBILE BRACKET	1	2	2	2
172 150TH MOBILE BRACKET	1	2	2	2
173 151ST MOBILE BRACKET	1	2	2	2
174 152ND MOBILE BRACKET	1	2	2	2
175 153RD MOBILE BRACKET	1	2	2	2
176 154TH MOBILE BRACKET	1	2	2	2
177 155TH MOBILE BRACKET	1	2	2	2
178 156TH MOBILE BRACKET	1	2	2	2
179 157TH MOBILE BRACKET	1	2	2	2
180 158TH MOBILE BRACKET	1	2	2	2
181 159TH MOBILE BRACKET	1	2	2	2
182 160TH MOBILE BRACKET	1	2	2	2
183 161ST MOBILE BRACKET	1	2	2	2
184 162ND MOBILE BRACKET	1	2	2	2
185 163RD MOBILE BRACKET	1	2	2	2
186 164TH MOBILE BRACKET	1	2	2	2
187 165TH MOBILE BRACKET	1	2	2	2
188 166TH MOBILE BRACKET	1	2	2	2
189 167TH MOBILE BRACKET	1	2	2	2
190 168TH MOBILE BRACKET	1	2	2	2
191 169TH MOBILE BRACKET	1	2	2	2
192 170TH MOBILE BRACKET	1	2	2	2
193 171ST MOBILE BRACKET	1	2	2	2
194 172ND MOBILE BRACKET	1	2	2	2
195 173RD MOBILE BRACKET	1	2	2	2
196 174TH MOBILE BRACKET	1	2	2	2
197 175TH MOBILE BRACKET	1	2	2	2
198 176TH MOBILE BRACKET	1	2	2	2
199 177TH MOBILE BRACKET	1	2	2	2
200 178TH MOBILE BRACKET	1	2	2	2
201 179TH MOBILE BRACKET	1	2	2	2
202 180TH MOBILE BRACKET	1	2	2	2
203 181ST MOBILE BRACKET	1	2	2	2
204 182ND MOBILE BRACKET	1	2	2	2
205 183RD MOBILE BRACKET	1	2	2	2
206 184TH MOBILE BRACKET	1	2	2	2
207 185TH MOBILE BRACKET	1	2	2	2
208 186TH MOBILE BRACKET	1	2	2	2
209 187TH MOBILE BRACKET	1	2	2	2
210 188TH MOBILE BRACKET	1	2	2	2
211 189TH MOBILE BRACKET	1	2	2	2
212 190TH MOBILE BRACKET	1	2	2	2
213 191ST MOBILE BRACKET	1	2	2	2
214 192ND MOBILE BRACKET	1	2	2	2
215 193RD MOBILE BRACKET	1	2	2	2
216 194TH MOBILE BRACKET	1	2	2	2
217 195TH MOBILE BRACKET	1	2	2	2
218 196TH MOBILE BRACKET	1	2	2	2
219 197TH MOBILE BRACKET	1	2	2	2
220 198TH MOBILE BRACKET	1	2	2	2
221 199TH MOBILE BRACKET	1	2	2	2
222 200TH MOBILE BRACKET	1	2	2	2
223 201ST MOBILE BRACKET	1	2	2	2
224 202ND MOBILE BRACKET	1	2	2	2
225 203RD MOBILE BRACKET	1	2	2	2
226 204TH MOBILE BRACKET	1	2	2	2
227 205TH MOBILE BRACKET	1	2	2	2
228 206TH MOBILE BRACKET	1	2	2	2
229 207TH MOBILE BRACKET	1	2	2	2
230 208TH MOBILE BRACKET	1	2	2	2
231 209TH MOBILE BRACKET	1	2	2	2
232 210TH MOBILE BRACKET	1	2	2	2
233 211ST MOBILE BRACKET	1	2	2	2
234 212ND MOBILE BRACKET	1	2	2	2
235 213RD MOBILE BRACKET	1	2	2	2
236 214TH MOBILE BRACKET	1	2	2	2
237 215TH MOBILE BRACKET	1	2	2	2
238 216TH MOBILE BRACKET	1	2	2	2
239 217TH MOBILE BRACKET	1	2	2	2
240 218TH MOBILE BRACKET	1	2	2	2
241 219TH MOBILE BRACKET	1	2	2	2
242 220TH MOBILE BRACKET	1	2	2	2
243 221ST MOBILE BRACKET	1	2	2	2
244 222ND MOBILE BRACKET	1	2	2	2
245 223RD MOBILE BRACKET	1	2	2	2
246 224TH MOBILE BRACKET	1	2	2	2
247 225TH MOBILE BRACKET	1	2	2	2
248 226TH MOBILE BRACKET	1	2	2	2
249 227TH MOBILE BRACKET	1	2	2	2
250 228TH MOBILE BRACKET	1	2	2	2
251 229TH MOBILE BRACKET	1	2	2	2
252 230TH MOBILE BRACKET	1	2	2	2
25				

[illegible]

KOLKATA PORT TRUST				SURNAME DT
NALOLA DOCK COMPLEX				DISEASE
MID & P'S DIS OFFICE				RACE / ETHNICITY
CYLINDER SUPPORT FOR 140mm				SEX
& 1200mm BELT WIDTH &				BLOOD TYPE
90° TROUGHING ANGLE				HGT - IN FT.
				WEIGHT - LBS
				DOB MM/DD/YYYY

— 1868 —

ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE STATED.

GENERAL MACHINING TOLERANCE ±0.2mm, UNLESS OTHERWISE STATED.

ALL BORES & SHARP CORNERS TO BE ROUNDED.

ALL DIMENSIONS ARE IN mm, UNLESS
STATED.

1. CALCULATE WATERSHEDS, FLOODPLAIN, AND RISK.

ALL RIGHTS & TRADE CONTENT TO BE KEPT

1
