

TENDER INQUIRY NO. VW/SKR/76 BTPN/OT-1

Tenders are invited from experienced and resourceful Fabricators / Contractors for the jobs as detailed in the enclosures to be done at our Victoria Works premises.

E.M.D. : As prescribed

1. Issue of tender documents : Any working day except Sunday and Holidays
Between 10.00 to 3.00 P.M.
2. Closing of Tender Box on 09 Oct 2004 (Due Date)
3. Opening of Part-I and Part-II of the Tender at 2.00 P.M. on 11 Oct 2004
4. The offer shall comprise of 3 Parts as under :
 - (a) Part - I : Credential Bid & EMD.
 - (b) Part - II : Techno-Commercial Bid
 - © Part - III : Price Bid

All three parts shall be inserted separately in 3 envelopes and these shall be put in 4th envelope and all the four envelopes shall be superscribed with our Tender No. VW/SKR/76 BTPN/OT-1 and Due date 09.10.2004.

Sealed Tender, addressed to Manager (Purchase), Braithwaite & Co. Ltd., 5, Hide Road, Kolkata – 43 may be dropped in our tender Box No. 01 (in case of Hand Delivery) or may be sent by Registered post but must reach us positively within 09.10.2004 (due date).

5. Braithwaite reserve the right to accept / reject / split any or all tender part or full without assigning any reason.
6. An unconditional acceptance of terms & conditions of the tender is to be given along with the offer.
7. Tender documents can also be available by down loading from our website www.braithwaiteindia.com. In that case, Rs.300/- in form of DD/Pay Order is required to be submitted towards cost of tender documents in addition to EMD amount along with the offer.

For BRAITHWAITE & CO. LIMITED

(S. K. Ray)
Manager (Purchase)

TENDER INQUIRY NO. VW/SKR/76 BTPN/OT-1

General Information with Terms & Conditions :

- i) Tender will be considered as cancelled if the documents as required for Part – I, Part – II and Part – III are not placed in respective envelope.
- ii) The tender is not transferable.
- iii) Braithwaite reserve the right to accept or reject any quotation without assigning any reason, whatsoever and without incurring any liabilities to the affected bidder.
- iv) Purchase preference will be applicable to Public Sector Undertakings (PSU) as per purchase preference policy of Govt. of India.

[A] Part – I : Credential Bid & EMD.

- i) Tender should submit all papers related to credentiality i.e. proof of past performance regarding fabrication / manufacturing of wagons with name (s) of respective customers, adherence to delivery schedule and audited balance sheet for last three (3) years, Income Tax Clearance, Trade Licence, Sales Tax (if any) Certificate, ESI, P.F. registration etc.
- ii) E.M.D. - As prescribed.
- iii) Earnest Money Deposit is required to be submitted by Demand Draft / Pay Order / Bid Bond in the form of bank guarantee in favour of Braithwaite & Co. Limited, payable at Kolkata, failing which Tender will not be considered. In case of bid bond, the validity period should be 90 days from the date of validity of the offer.
- iv) EMD Bid Bond will be forfeited or revoked if the tender is withdrawn and / or if the price is escalated later within the validity of the offer.
- v) EMD shall be returned to unsuccessful bidder only after finalisation of the contract.

[B] Part – II : Techno-Commercial Bid.

- i) No offer will be considered without EMD.

[2]

- ii) Security Deposit @ 10% of ordered value only in the form of Bank Guarantee (valid upto the completion of the order) must be submitted by the successful bidder (hereinafter called contractor) within 10 (ten) days on receipt of Purchase Order. EMD amount can be adjusted towards security deposit on an intimation from successful bidder partly or fully. EMD will only be refunded back against submission of security deposit in full amount.
- iii) Performance Guarantee is to be submitted @ 10% of ordered value in the form of BG valid till completion of guarantee / warranty period. However, the Security Deposit may be continued as reference BG with proper validity subject to an intimation from successful bidder and otherwise separate BG for the same to be submitted.
- iv) Submission of improper Bank Guarantee will lead either rejection of offer or cancellation of order.
- v) Security deposit will be returned only on completion of the job at BWT's full satisfaction in all respect and on submission of performance BG. Finally, Performance BG will be returned on completion of guarantee / warranty period of the job.
- vi) Bank Guarantee forma (s) for EMD and Security Deposit is / are available from Purchase Department.
- vii) Bidder(s) should submit their list of Plant & Machineries in details. They should also submit QAP for the subject.
- viii) Offer should remain valid for 90 days from the date of opening of this tender.
- ix) All corrections (if any), must be signed at the appropriate place by the signatory of the bidder, otherwise tender will be invalidated.
- x) Alteration / inclusion / deviation will not allowed once the bid is submitted except Tender Evaluation Committee demand for further clarification (if any).
- xi) Quantity of items may vary depending on our requirement to the extent of 30%.
- xii) Splitting of Tender – We reserve the right to split up the tendered 'Job' and 'Quantity' within more than one bidder without assigning any reason.

[3]

- xiii) Liquidated Damages - In the event of your failure on the part of the Contractor to complete the job within the stipulated completion period. Braithwaite reserve the right to recover a sum of 0.5% for every week or part thereof by way of LD subject to maximum limit of 10% of the ordered value.
- xiv) Risk Purchase - In the event of failure on the part of the contractor to complete the job within the reasonable period of time as decided by the purchaser, the Purchaser reserve the right to get the job done by other agency/agencies as per the order on risk purchase basis and shall recover the extra cost thereof, if incurred, from the contractor.
- xv) Arbitration - Any dispute and difference, whatsoever arising between the Contractor out of or relating to the construction, meaning, scope, operation or effect of this contract or validity or the breach there of shall be settled by arbitration in accordance with the Rules of Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the Party.
- xvi) Any legal dispute that may arise, will be settled within the jurisdiction of Court of Calcutta.
- xvii) Lumpsum price for the job **per wagon basis** should be quoted. However, break-up details for manpower, rates for individual job should be provided by the bidder (contractor), if required, by the purchaser.
- xviii) The Bidders should submit the details of manpower to be engaged category-wise (high skill, skilled, semi skill, un-skilled and supervisors, Officials, etc.) alongwith their estimate.
- xix) The Bidders may contact our Victoria Works for any query / study the related drawings on any working day except Wednesday.
- xx) Payment terms shall be 30 days credit, otherwise Price Bid Part may not be considered. Payment will be made against the rate (per wagon basis) fixed as per Sl. No. (xvi) and no other mode of payment against partly done job will be considered.

[4]

xxi) **Description of job :**

Group no.	Job Description	Quantity (wgn.set)
1	Complete fabrication and mounting of BTPN barrel On under frame as per the following drawings (for details please see Col. D [a]) CW1-BTPN-02-04 (Alt. No. – latest) CW1-BTPN-02-05 (Alt. No. - -do-) CW1-BTPN-02-06 (Alt. No. - -do-) CW1-BTPN-02-10 (Alt. No. - -do-) CW1-BTPN-02-09 (Alt. No. - -do-) CW1-BTPN-02-08 (Alt. No. - -do-) Item involved as per material list. 1B to 6B, 9B to 13B, 36B to 33A/B, 52B to 54B & 62B to 64B	76
2	Complete riveting of BTPN Wagon (for details please see Col. D [d])	76
	Fabrication of sub-assembly of components: i) Un-coupling Gear arrangement as per drawing no. CW1-BTPN-03-05 (Alt. No.). Involve material item No. 54/C to 63/C ii) Stainer Bracket assembly as per drawing no. CW1-BTPN-03-05 (Alt. No.). Involve material item No. 18/B to 23/B Involve material item No. 67/C, 68A/C iii) A.P.D. Box assembly as per drawing no. CW1-BTPN-03-07 (Alt. No.). Involve material item No. 102/C to 107/C (for details please see Col. D [c])	76
4	Preparation-cum-manufacture of components and attachments of BTPN wagon related to Barrel as per details in Col. D [b].	76

xxii) Rate(s) quoted against respective EMI) for any Group having its sub-group(s) partly quoted may not be valid.

xxiii) E.M.D. amount :

GROUP	Reference : E.M.D. (Rs.)
1 to 4	25,000/-

[5]

- xxiv) Braithwaite reserve the right to terminate the contract / order by giving 7 days notice, at any point of time.
- xxv) The contractor shall maintain register of receipt and issue of all free issue materials. Material reconciliation statement for free issue materials shall be prepared and submitted by the contractor, before final settlement or earlier (if required).
- xxvi) In case of availing any equipments / services which is / are within Contractor's scope of work from Braithwaite, the Contractor shall have to pay rental / hire charges to be determined by BWT.
- xxvii) Monthly production Planning and monthly production progress report should be submitted by the contractor to our concerned authority.
- xxviii) BWT will not pay any idle labour charge during execution of the job / order.
- xxix) Warranty / Guarantee period of the job against the order will be 30 months from the date of delivery or 24 months from the date of commissioning whichever is earlier.

[C] Part – III : Price Bid.

- i) Price Bid part shall be opened only if Part – I & Part – II are qualified.
- ii) Quoted rate in the offer should be in terms of labour charges (including all) only for the job(s) as described in Item No. 'B' (xxi).
- iii) Rates should be mentioned in figure as well as in words.
- iv) Quoted rate against the tendered quantity shall be firm till the completion of the contract / order.

[D] Statutory Obligations :

- I. Canteen facilities will not be provided by Braithwaite & Co. Ltd. Arrangement of meals and tiffin, if any, for Contractor's employees will have to be made by the Contractor from outside at his cost.
- II. The employees of the contractor should follow all the instruction given to their authorized representative while doing job at the works of Braithwaite & Co. Ltd.

- III. The Contractor's workmen should be covered by proper insurance against any injury / accident and or death. Braithwaite will not be responsible on this account under any circumstances. In case of coverage by ESI or Group Insurance, documentary evidence must be produced before taking up the work. The Contractor shall observe all safety rules and regulations as per requirement of the particular nature of work.
- IV. The Contractor will fulfill statutory obligations as under :
- a) Contract Labour (Regulation & Abolition) Act, 1970.
 - b) Contract Labour (Regulation & Abolition) Rules, 1970.
 - c) E.S.I. Act Scheme.
 - d) Minimum Wages Act & Rules as fixed by Govt. time to time.
 - e) P.F. Act, 1952, Pension Act and allied scheme.
 - f) Payment of Bonus Act
 - g) To contribute as per Provident Act, 1952. E.S.I. Scheme Act and Scheme & Minimum Wage Act & Rules as fixed by Govt. time to time.
- V. The Contractor shall have to comply with all statutory responsibilities in regard to the Contract Labour (Regulation & Abolition) Act, Employees' Provident Fund Act, ESI Act & Bonus Act. If the Contractor does not have P.F. Code No. with RPFC, 20.69% on labour charges will be deducted from the Contractor's bill as 10% deduction towards contribution of workmen and 10.69% towards Contractor's contribution.

The responsibilities of Contractor under the Contract Labour (R&A) Act & Central Rules therein is appended.

- a) Appropriate Government in respect of our establishment is the Central Government i.e. Office of the Regional Labour Commissioner (Central) at Nizam Palace, Calcutta.
- b) A Contractor, who engages twenty or more workmen as aforesaid is to obtain Licence under the said Act for which he may consult Personnel Department.
- c) A Contractor is responsible for payment of wagon to his Contract Labourer which shall be paid in due time, payment should be made in presence of the representatives of the principal Employer i.e. the Company.
- d) The Contractor should issue Notice of Payment, Register of Wagons, Master Roll, etc. in Prescribed Format.

[7]

- e) The Contractor is responsible for payment of final settlement to the Contract Labour in the event of termination / retrenchment.
- f) The Contractor shall pay atleast minimum wages for different categories as prescribed by the Government from time to time.
- g) Every Contractor shall maintain the Register of persons employed in Form III. The Contractor shall issue an employment card in Form XIV, duly filled in. On termination of employment at any reasons whatsoever the contractor shall issue to the workmen whose service have been terminated, the service certificate in Form IV.
- h) Every Contractor shall maintain a Master Roll in Form XVI and a Register of Wagon in Form XVIII. Register of Overtime in Form XXIII and Register of Deduction in Form XX and Form XXI and Register of Advance in Form XXII.

All those Registers must be available at sites and subject to inspection at any time the Company as well as Government authorities.

- i) The Contractor shall issue wage slip in Form XIX and issue Notices of Payment, prior to every disbursement.
 - j) The Contractor shall issue notices, showing the rates of wages, hours of work, wage period, date of payment of wages, name, designation and address of the inspector having jurisdiction, date of payment unpaid wages. He should forward a copy to the Inspector under the Act as well as to the Company. He should also furnish other Statutory Notices.
- VI. In case of any damage done to materials of Braithwaite by Contractor's people during execution of work, it will be a binding to the contractor to compensate Braithwaite for the damage done and amount of compensation will be decided by Braithwaite.

- VII. The Bidders should declare that they would be complying with the provisions & statutory requirement of Contract Labour (Regulation & Abolition) Act.

[8]

[D] Technical requirements with Job description :-

{a} (1) Job description:

Group No.	Description	Qty.	A/C
1.	Complete fabrication of B.T.P.N.Barrel and it's mounting on component - fitted U/frame as per the following drawings CW1 – BTPN – 02-02 (Alt No. - Latest) CW1 – BTPN – 02-05 (Alt No. - do -) CW1 – BTPN – 02-06 (Alt No. - do -) CW1 – BTPN – 02-10 (Alt No. - do -) CW1 – BTPN – 02-09 (Alt No. - do -) CW1 – BTPN – 02-08 (Alt No. - do -) Item involved as per material list : - 1B to 6B 9B to 13B 36B to 33A/B 62B to 64B 52B to 54B	76 Wgn. sets	2/52/4/01/00 as per PIS Dt.12-08-04

(2) Scope of Work for contractor :

- a) Rolling of shell plates (1/B,2/B) and other items .
- b) Plugging of holes in Dished end Chamfering and edge preparation of D/ends.
- c) Shell to Shell, Shell to D/end fitting and Welding, fitment of safety neck, Dome neck assembly, Tee assembly with fabricated barrel, Fitment sub-assemblies like all types of platforms, ladder, cradle, master valve body, chipping, grinding and matching of taper valve, fitting of coupler etc.
- d) Mounting of Barrel on brake component fitted Under frame along with it's related works.

(3) Inspection :-

Inspection will be done by our internal inspectors, which at a later stage are to be ratified by R.D.S.O. and the responsibility of getting all the materials (sub-assembly) and the barrel finally passed by R.D.S.O. rests with the contractor.

(4) Contractor's / Sub- Contractor's responsibility :-

- a) Unskilled/Skilled/H. Skilled labours / Supervisors Category wise –
 - i. Unskilled Labour/Mazdoor – 8 (Barrel, Barrel Mounting Preparation)
 - ii. Semiskilled labour –
Slinger - 4 ,W/Helper – 3, Grinder – 2
 - iii. Skilled Labour –
Welder – 18 , SAW Operator – 2, Marker – 2, E.O.T Crane Driver – 2, Fitter – 6,
Gas Cutter – 4
 - iv. H. Skilled Labour –
Sr. Mistry – 1
 - v. Tech. Supervisor – 1
- Grand Total – 53

Notes :

This is only a tentative estimate of labour force to produce 20 BTPN Wagons per month in 2 Shift work per day on the basis of 8 hrs/Shift and it may increase or decrease on the requirement of BWT production exigency from time to time.

- a) Electric switch Board with 50 meter of extn. Cable – 3 Nos.
- b) Cables for Welding M/C – i. 10' – 0" lg terminal cable with Socket – 6 ii. Extension cable with male/female socket – 50' – 0"lg – 6 Nos. iii. End cable with holder – 25' – 0"lg (with Socket) – 6
- c) Gas cutting sets – Hand cutting set with matching gas and O₂ pipe (50'-0"lg each) with 1/32", 3/64", 1/16", 5/64" cutozen Nozzle – 4 Nos., Cheetah/Pug – 2 Nos. with matching neccessories, pipes, nipples and nuts.
- d) Welding Helmet :- 10 Nos.
- e) Pneumatic Chipping m/c with round and flat chisel – 2 Nos.
- f) Electric grinding m/c with wheels – 3 Nos.
- g) Measuring instrument :-
 - i. 2' lg S. S. Scale – 1
 - ii. 50'-0" lg steel tape – 1
 - iii. 100'-0"lg Steel tape – 2
 - iv. 1'-0" lg vernier caliper – 1
 - v. Piano wire – 200'-0"lg – 1 reel
 - vi. Permanent magnetic holder – 2
 - vii. Inside and outside caliper – 12" dia – 2 Nos.
- h) tools and tackles – Material handling and other tools and tackles like 12",10",8" slide wrench – 1 each, Crow bar – 2 Nos. box spanner key for openings of O₂ and C₂H₂ Cylinder, wrench set etc.

(5) Target :-

20 BTPN Wagons complete in all respect and passed by R.D.S.O. per month and 5 Nos./week.

(6) Daily time schedule of work :-

A Shift – 8 a.m. to 4 p.m., B Shift – 2 p.m. to 10 p.m.

And extra hours on as when required basis and a directed by unit head/VW.

BWT's responsibility :-

Pressed dished ends, gas cut of shell plates by C.N.C. / Cheetah / Pug gas cutting m/c, Electricity, E.O.T. Cranes, Welding M/C, Welding Electrodes, Drilling m/cs (radial type),D.A. and Oxygen Cylinder, Compressed Air, Water, B.O. items for fittings, Ladders. However, in case of Heavy Brake down of welding M/cs, alternative arrangement to be made by the Contractor.

Maintenance of company's machinery's like shearing m/c, hydraulic press m/c, Welding m/c's (Co. owned), rolling m/c, E.O.T./wall Cranes, all water/ dewatering pumps etc.

[10]

Mobilisation:- Contractor shall mobilize with all required equipment & manpower within 7 days after receipt of L.O.I./P.O.

Payment :- Bill will be accepted after getting the wagon passed/ stamped (i.e. DM) by RDSO.

{b} (1) Job description:

Sl. No.	Description	Qty.	A/C
1.	Preparation-cum-manufacture of components and attachments of 'BTPN WAGON' related to Barrel and Component fittings of Under frame including material handling, marking, cutting, straightening, rolling/bending, smithy/B.S.S. job grinding, drilling etc. complete in all respect as per the approved drawings mentioned as under : 1. CW1- BTPN-01-03 RIV 9 2. CW1- BTPN-02-02 RIV 7 3. CW1- BTPN-02-01 RIV 13 4. CW1- BTPN-02-00 RIV 9 5. CW1- BTPN-02-05 RIV 10 6. CW1- BTPN-02-06 RIV 9 7. CW1- BTPN-02-08 RIV 4 8. CW1- BTPN-02-09 RIV 7 9. CW1- BTPN-02-10 RIV 1 10. CW1- BTPN-03-00 11. CW1- BTPN-03-02 RIV 2 12. CW1- BTPN-03-03 RIV 4 13. CW1- BTPN-03-04 RIV 7 14. CW1- BTPN-03-05 RIV 1 15. W/BD-6318- RIV 1 16. W/BG-1134- RIV 1 17. W/BG-6190- RIV 3 18. W/BG-6188- RIV 2 19. SK-73552 20. CW2-BTPN-02-01-RIV5 21. CW1 – BTPN – 03-07/1 – RIV1	76 Wgn. Set	2/52/4/01/0 0 as per PIS Dt.12- 08-04

Scope of work for contractor, Inspection, Contractors responsibility, BWT's responsibility, Target, Daily time schedule of work.

A) **Venue of work** : - Victoria Works

[11]

Scope of job : - Preparation of following items with respect to approved drawing.

SL. NO.	BOM ITEM NO.	QTY. RQD. WAGON	WT IN KG.	SL. NO.	BOM ITEM NO.	QTY. RQD. WAGON	WT IN KG.	SL. NO.	BOM ITEM NO.	QTY. RQD. WAGON	WT IN KG.
1.	7/B	1	05	43.	19B/C	1	01	85.	37/C	4	06
2.	8/B	1	06	44.	19C/C	1		86.	54/C	2	16
3.	10A/B	4	131	45.	20/C	2	14	87.	55/C	4	01
4.	11B/B	4	128	46.	20A/C	1		88.	56/C	2	09
5.	52/B	2	26	47.	21/C	1	02	89.	57/C	2	02
6.	54/B	1	11	48.	22/C	1	02	90.	58/C	2	01
7.	18/B	2	14	49.	23/C	2	05	91.	60/C	4	01
8.	19A/B	2	06	50.	24/C	1	02	92.	59/C	2	06
9.	19B/B	4	11	51.	25/C	1	01	93.	61/C	2	02
10.	19C/B	2	07	52.	26/C	2	08	94.	62/C	2	02
11.	20A/B	2	05	53.	27/C	2	01	95.	63/C	2	02
12.	21A/B	2	05	54.	30/C	2	01	96.	66/C	2	12
13.	22/B	2	02	55.	31/C	1	04	97.	71B/C	4	40
14.	23/B	2	02	56.	32/C	2	02	98.	98/C	4	25
15.	14/B	4	27	57.	32A/C	2	02	99.	69/C	4	15
16.	15/B	2	11	58.	45/C	1	03	100.	70/C	8	05
17.	16/B	30	14	59.	46/C	2	05	101.	71/C	4	02
18.	24/B	24	48	60.	47/C	2	01	102.	72/C	4	10
19.	25/B	4	01	61.	48/C	1	02	103.	73/C	2	07
20.	40/B	2	145	62.	49/C	2	05	104.	73A/C	2	07
21.	41/B	2	61	63.	50/C	2	01	105.	82/C	2	
22.	42/B	2	08	64.	51/C	1		106.	83/C	2	09
23.	43/B	2	55	65.	52/C	1	02	107.	84/C	2	
24.	26/B	4	471	66.	52A/C	1		108.	102/C	2	
25.	27/B	4	157	67.	53/C	1	01	109.	103/C	1	03
26.	28/B	8	249	68.	53A/C	1		110.	104/C	2	
27.	29/B	16	207	69.	74A/C	1	02	111.	105/C	1	10
28.	30/B	4	06	70.	65/C	2	18	112.	106/C	1	03
29.	30A/B	4	05	71.	75/C	2	03	113.	40/C	2	01
30.	31/B	4	06	72.	76/C	1	01	114.	118/C	4	05
31.	31A/B	4	06	73.	77/C	1	10	115.	119/C	4	17
32.	32/B	4	03	74.	78/C	2	03	116.	120/C	4	05
33.	32A/B	4	03	75.	81/C	1	01	117.	67/C	2	22
34.	33/B	4	01	76.	88/C	2	04	118.	68A/C	2	02
35.	33A/B		01	77.	93/C	8		119.	74/C	2	01
36.	62/B	4	60	78.	94/C	2	01	120.	85/C	2	03
37.	63/B	4	30	79.	96/C	2		121.	86/C	2	01
38.	64/B	4	38	80.	97/C	1		122.	87/C	2	03
39.	18/C	4	107	81.	33/C	4	12	123.	92/C	2	05
40.	18A/C	4	001	82.	34/C	2	04	124.	3/B	2	10
41.	19/C	1	01	83.	35/C	2	03	125.	4/B	2	17
42.	19A/C	1	01	84.	36/C	4	02	126.	9A/B	2	97
								127.	46/B	4	01

Cont'd..P/12

Contractor's Scope of Works :-

1. All materials are to be prepared as per approved drawings.
2. Materials handling, i.e. raw steel as well as finished items from one place to another place.
3. Materials identity records, i.e. (a) Traceability of processed materials, (b) Traceability record to be maintained for onward submission to R.D.S.O.
4. Items are to be prepared with the help of following operation like marking, gas cutting, shearing, straightening, bending/rolling, drilling, taping, hydraulic pressing, grinding and black smith job etc.
5. A tentative steel reconciliation report to be submitted in every month with the R.A. Bill.
6. R.D.S.O is the final authority to get passes the finished products approved and passed and the responsibility of passing the finished product lies solely with the contractor.
7. All finished products to be kept proper stacking with require specification mark.
8. Shop floor is to be kept clean and generated scrapes to be kept in scrap box.
9. Pressing of valve seat to the Master valve body.
10. Prepared shell plate to be supplied by BWT. In case of CNC M/c is under brake down, alternative arrangement has to made by the Contractor.

Contractor's responsibility :-

1. Manpower –
 - a. Unskilled, Semi-Skilled, Skilled, High Skilled, Supervisor as under :

Unskilled Mazdoor	– 6
Slinger(S.S)	– 2
Crane Driver(SK)	– 1
M/c Operator helper (S.S)	– 6
M/c Operator (SK)	– 6
Marker (SK)	– 2
Marker (S.S)	– 2
Supervisor	– 1
Black Smith (HS)	- 1
Total	– 27
 - b. Equipments & Machines :-

Pug cutting m/c	– 3
D.A. & Oxygen regulator	– 4 pcs. each
Hand cutting torch	– 4 Nos.
with 3/64", 1/16", cutozen nozzle with 50 meter lg. O ₂ and C ₂ H ₂ pipe each etc.	
2. Tools and Tackles i.e. Jubilee Clamp, require drill bits, taps, Marking Apparatus (Line Thread, Marking Chalk, Scriber, center punch, punching hammer, Compass etc), Hand gloves, Hand Lamps, Electric connection switch board with sufficient Extension cable Electric grinding M/C with wheel etc.
3. Contractor should follow the labour act's rule.
- 4.

Delivery Schedule :- 20 Wagon set per month (5 wagon set per week).

[13]

Braithwaite's Responsibility :- Braithwaite will provide the following :

a. Required space, **b.** Raw materials, **c.** Approved drawings with available templates, B/O components (Master Valve Body and its Seat Valve), **e.** E.O.T. Crane, **f.** Compressed Air. **g.** Electricity, **h.** Drinking Water, **i.** Profile Gas Cutting M/C, Pyramid rolling M/C, Flattening / Straightening rolling M/C, Drill M/C, Hydraulic Press, and Oven for Black smith job. **j.** Dissolved Acetylene and compressed oxygen for gas cutting, **k.** Required Drilling of items screw guide flg., Horizontal lever, 31/C,26/C,75/C,24/C to be done by BWT, **l.** Pearl Coke.

Mobilisation :- Contractor shall mobilise with all equipment and man power within 7 days of receipt of LOI/ P.O.

Inspection :- Acceptance of finished product by BWT's internal Inspector as well as R.D.S.O., shall be responsibility of contractor.

{c} Scope of work:

Sl. No.	Description	Qty.	A/C
1.	Fabrication of following sub-assembly of BTPN Wgn.	76	2/52/4/01/00
i.	Uncoupling gear arrangement as per drg No. CW1-BTPN-03-05(Alt No.) Involve material list item No. 54/C to 63/C	Wgn Sets	as per PIS Dt.12-08-04
ii.	Strainer Bracket assly. as per drg No. CW1-BTPN-02-05(Alt No.) Involve material list item No. 18/B to 23/B Involve material list item No. 67/C,68A/C	-do-	
iii.	Discharge Pipe assly. as per drg No. CW1-BTPN-02-01(Alt No.) Involve material list item No. 66/C,71B/C,98/C	-do-	
iv.	A.P.D Box assly. as per drg No. CW1-BTPN-03-07/1(Alt No.) Involve material list item No. 102/C to 107/C	-do-	

Notes :

a. The job shall be carried out inside VW premises.

1. Venue of Work :- VW premises

2. Contractor's scope of work :- Fitting, welding, gas cutting, materials handling, all finished product stacking with proper identification mark. Traceability of material against each sub-assy. Reconciliation of received prepared items.

3. Contractor's responsibility :-

Labours as described below :- 10

- a) Unskilled labour - 3
- b) Skilled Labours
 - Welders - 3
 - Fitter - 2
 - Gas cutter - 1
 - Grinder - 1

Notes :

This is only tentative estimate of labour force to produce 20 BTPN Wagons per month in 2 Shift work per day on the basis of 8 hrs/Shift and it may increase or decrease on the requirement of BWT production exigency from time to time.

- c) All welding accessories
- d) Electric grinding machine with wheels and its accessories
- e) Hand gas cutting sets with all its accessories (D.A. and Oxygen regulator, Hose pipe, Nozzle etc.).
- f) Measuring instruments, other tools and tackles require to fabricate the sub-assemblies.
- g) Electrodes Butts to be kept in a separate bin.
- h) All sub-assembly to be passed by VW inspector as well as R.D.S.O at a final stage.
- i) 20 Wagon sets of all sub-assemblies to be produce in a month.

4. Braithwaite's responsibility :-

- a) Total prepared & B.O. items required for the sub-assemblies are to be supply.
- b) Electricity, Water, approved drawing and material list .
- c) Electrodes, D.A. and Oxygen.

5. Mobilisation :-

Contractor shall mobilised all equipment's and manpower within seven days from the date of receiving of Purchase Order.

6. Payment Terms : Bills will be accepted after getting the wagon passed / stamped (i.e. DM) by R.D.S.O.

{d} Scope of work:

Sl. No.	Description	Qty.	A/C
1.	Complete Rivetting of BTPN Wagon	76Wgn. sets	2/52/4/01/00 as per PIS Dt.12-08-04

Notes :

- a. The job shall be carried out inside VW premises.

[15]

Details of Rivetting work for each BTPN Type wagons as under.

Dia of Rivetts	Qty. per Wagon
10mm	10 Nos.
12mm	52 Nos.
16mm	6 Nos.
20mm	44 Nos.
22mm	20 Nos.
24mm	116 Nos.

Scope of Works :- completely work of Rivetting.

Braithwaite's responsibility :- The following items shall be supplied on free of cost to the contractor for completion of the job.

- Water, Compressed air, Electricity, Consumables i.e. pearl coke for rivetting hearth.
- Rivets as per required size.
- D.A. and Oxygen.

Contractors responsibility :-

- All types of machinery inclusive of rivetting hammer, Dolly, Snap etc. and other tools and tackles required for the job shall be arranged at contractor's cost.
- The contractor shall arrange required number of labours of different category.
- Hand gas cutting facility with gas cutter, if required, is to be arranged "as and when required" by contractor including gas cutting sets and its accessories (D.A. and Oxygen regulator, Hose pipe, Nozzle etc.
- Emergency work may be required to be done both in 'A' & 'B' Shift.
- Total Rivetting job to be passed from VW inspector as well as R.D.S.O. at a final stage.
- Rivetting job is to be produced 20 Wagon sets in a month.
- Cost of each Rivet for rivetting more than 3% will be deducted from contractor's bill.

Mobilisation :-

Contractor shall mobilise all equipment's and manpower within seven days from date of receiving of Purchase Order.

Payment Terms : Bills will be accepted after getting the wagon passed / stamped (i.e. DM) by R.D.S.O.

Unconditional acceptance of all the terms and conditions alongwith our technical requirements as mentioned in the tender should be given by the tenderer along with their offer.

(S. K. Ray)
Manager (Purchase)